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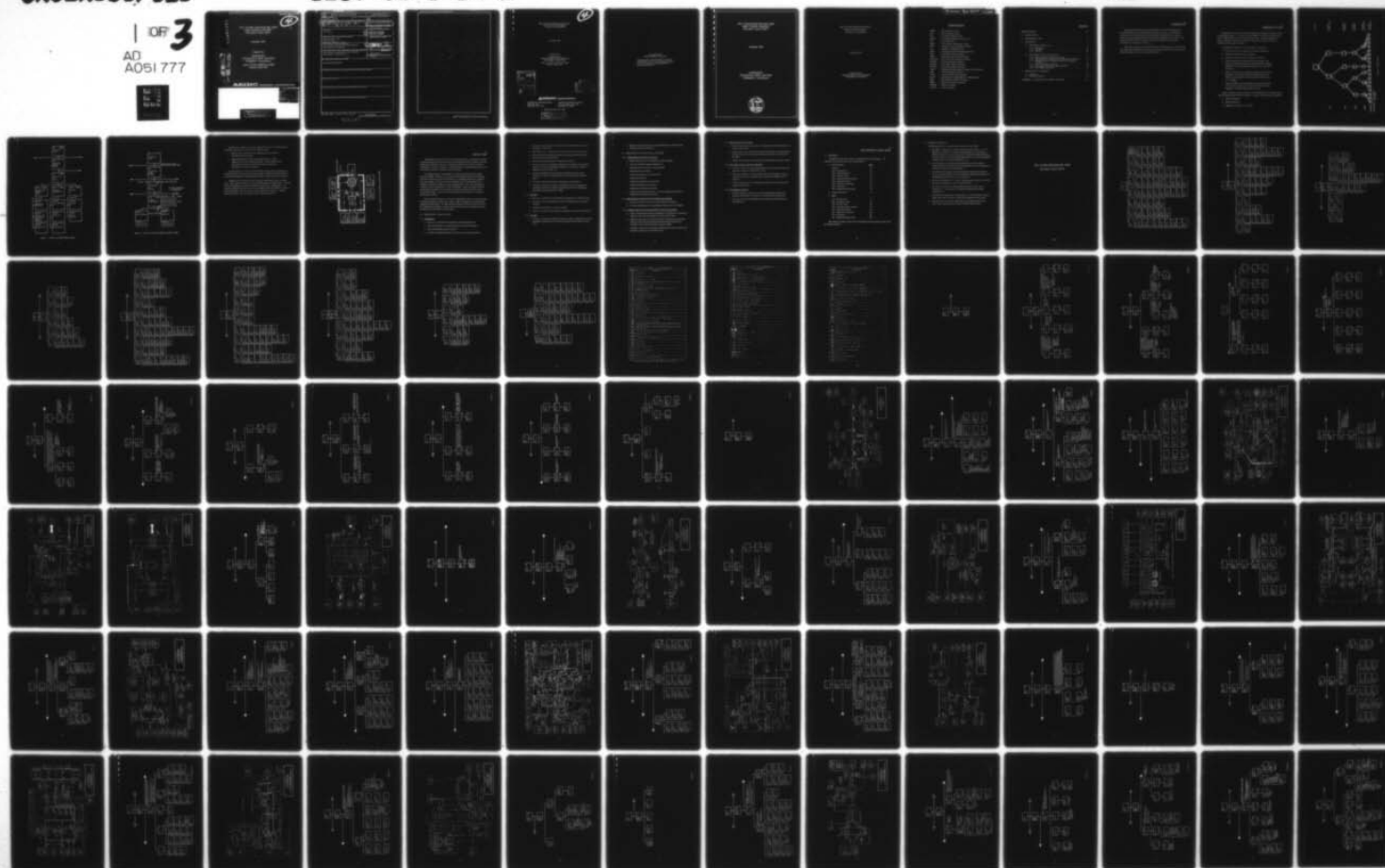
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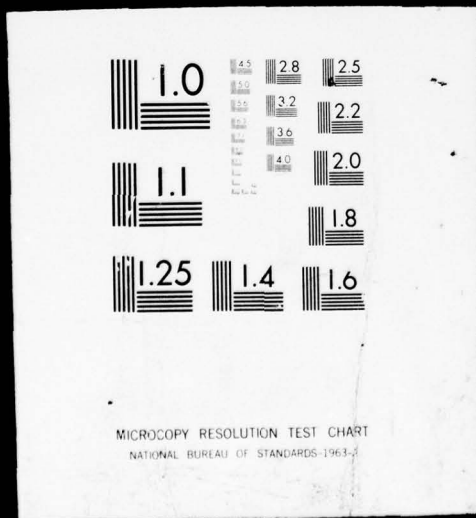
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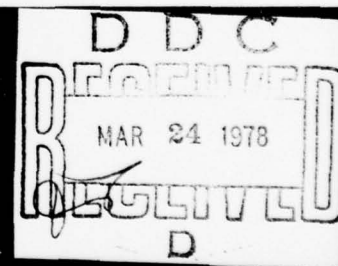
SHIP SYSTEMS DEFINITION AND INDEX  
(SWBS STAGING DIAGRAMS)  
FOR DDG-2 CLASS SHIPS

November 1976

Prepared for  
PERA(CRUDES)  
PHILADELPHIA NAVAL SHIPYARD  
Philadelphia, Pennsylvania  
Under Contract N00140-74-D-0090  
Delivery Order 0017

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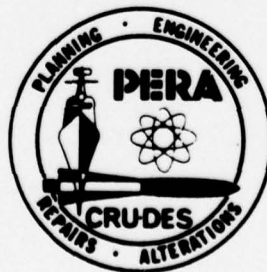
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## ABBREVIATIONS

ASROC	- Anti-submarine rocket
ASW	- Anti-submarine warfare
CDC	- Component Dictionary Code
COSAL	- Coordinated Shipboard Allowance List
CPO	- Chief petty officer
CSMP	- Current Ship's Maintenance Project
DART	- Detection, Action, Response Technique
EIC	- Equipment identification code
EOSS	- Equipment Operational Sequencing System
FMP	- Fleet Modernization Program
MDCS	- Maintenance Data Collection System
NAVELEX	- Naval Electronics Systems Command
NAVSEA	- Naval Sea Systems Command
NAVSEC	- Naval Ships Engineering Center
NAVSUP	- Naval Supply System Command
PERA	- Planning and Engineering for Repairs and Alterations
PMS	- Planned Maintenance System
POT&I	- Preoverhaul Test and Inspection
SECAS	- Ship Equipment Configuration Accounting System
SSDI	- Ship Systems Definition and Index
SWBS	- Ship Work Breakdown Structure
SYSCOM	- Systems command
TYCOM	- Type commander



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# I INTRODUCTION

The Ship Systems Definition and Index (SSDI) is an orderly identification and structuring of the systems and subsystems that make up a ship. In defining ship systems as well as their boundaries and interfaces, the SSDI creates a common language for communicating information about ship configurations. The SSDI is thus useful to all Navy activities involved in the life-cycle operation, maintenance, modernization, and support of ships.

This report discusses the general properties of SSDIs (Section 2), and the many ways SSDIs can be utilized by the various Navy activities (Section 3); and presents the SSDIs developed for the DDG-2 ship class (Section 4).

## 2 PROPERTIES OF SSDI

The hierarchical concept on which the Ship Systems Definition and Index is based is illustrated in Figure 1. As can be seen, the SSDI is structured such that the summation of SSDI items at any level defines the total ship. An actual application of Figure 1, showing a typical ship breakdown from the major system to the sub-subsystem level, is shown in Figure 2.

As illustrated by Figures 1 and 2, the SSDI is structured to:

- a. Provide a multi-level breakdown of a ship's configuration.
- b. Completely define the ship at each level.
- c. Contain no redundancies in its definition of the ship.
- d. Utilize the Ship Work Breakdown Structure (SWBS). This provides a standard language based on the same nomenclature and three-level coding system mandatory for use on a Navy-wide basis.
- e. Utilize a standard Navy Component Dictionary Code list (see Appendix A) for assigning fifth-level identification codes. The last two characters of the identifier are from this list, e.g., 2551M7.
- f. Tailor the SWBS to the configuration of a specific ship class. The ship class diagrams can in turn be tailored to the configuration of individual ships within the class.

Figure 3 extends a portion of Figure 2 to an additional level of detail to demonstrate the information provided in the SSDI. As shown, the following are identified:

- a. System equipments
- b. System boundaries
- c. Shipboard maintenance work centers

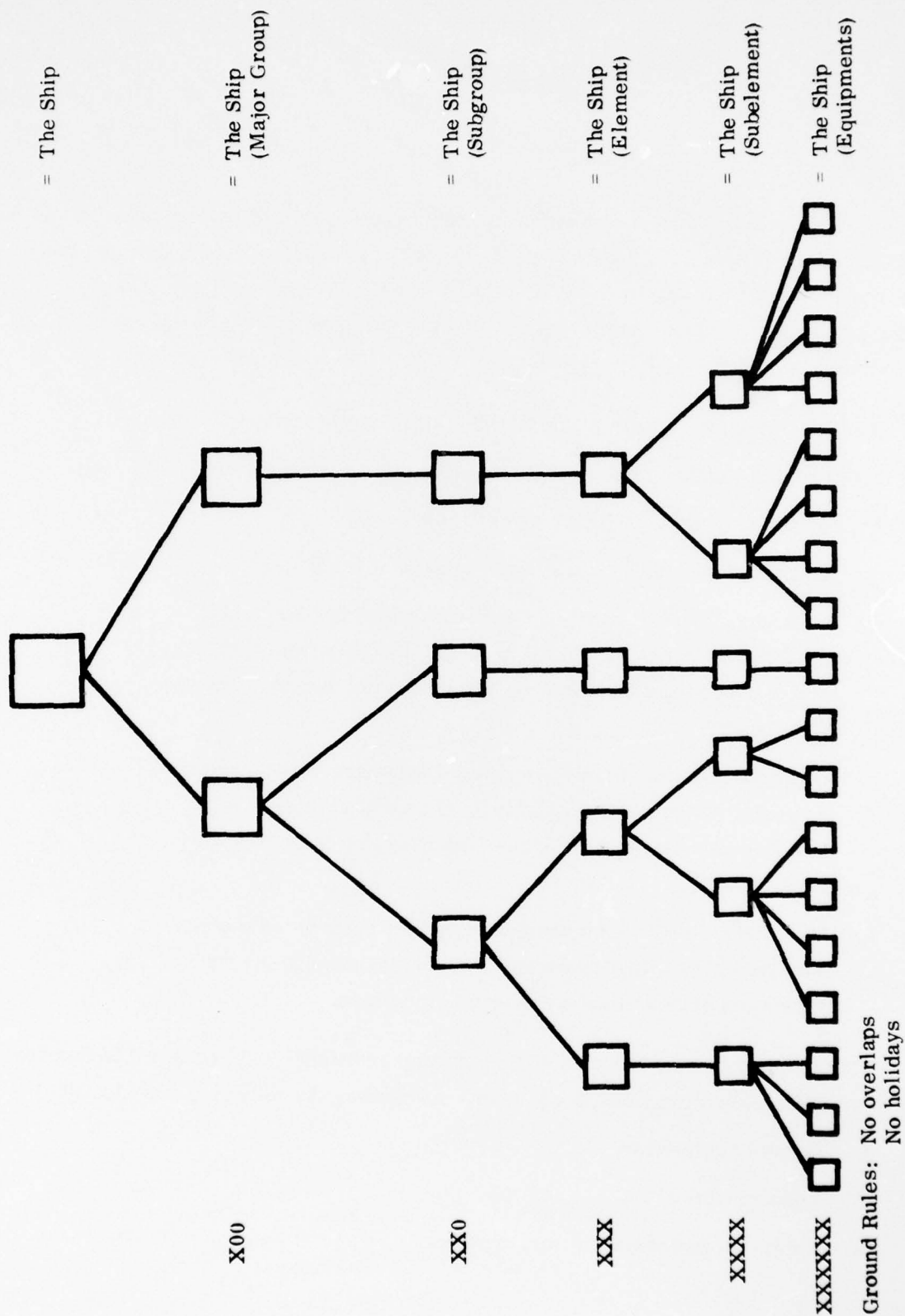


Figure 1. SSDI Concept

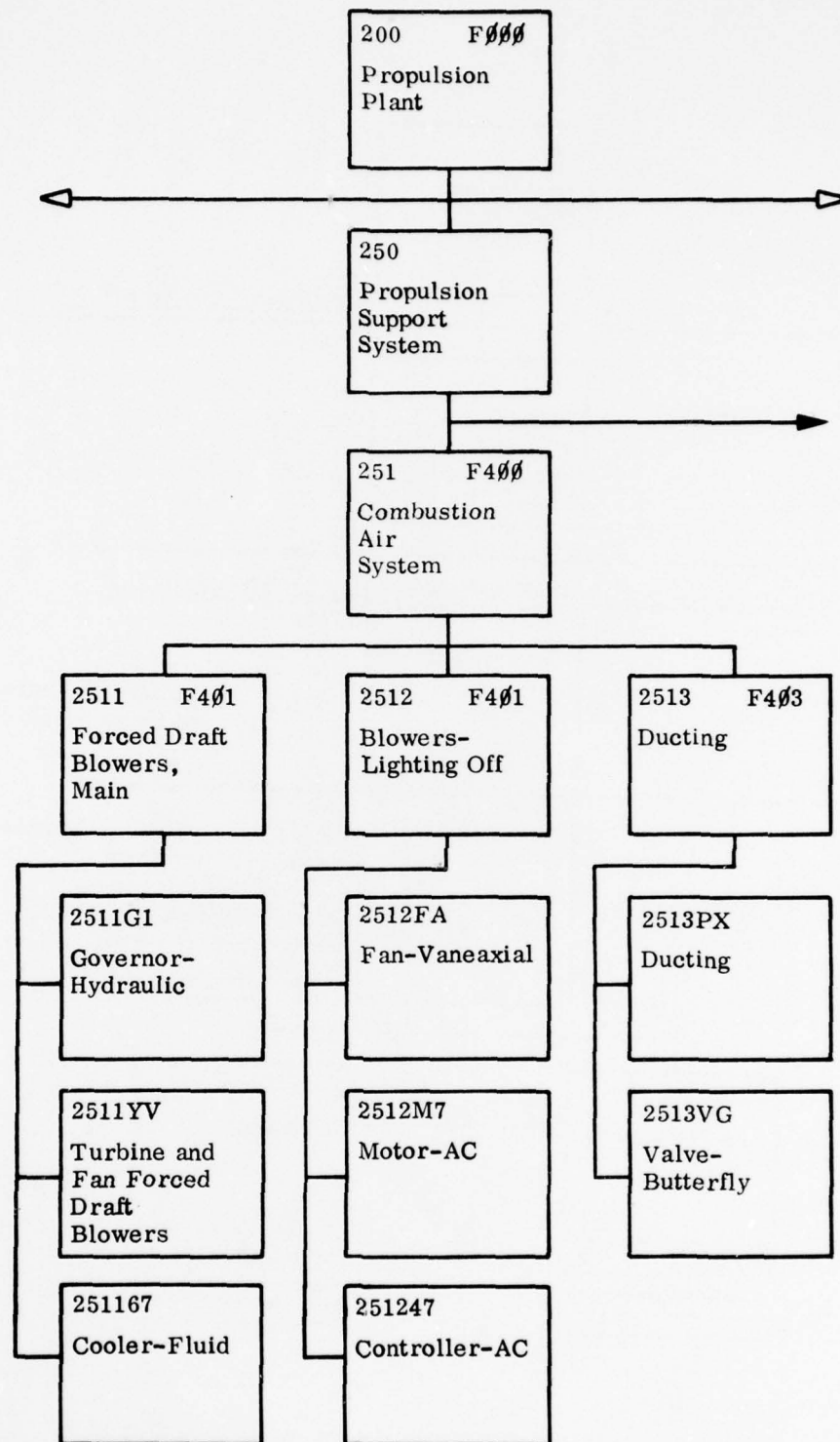


Figure 2. Portion of a Typical Ship's System



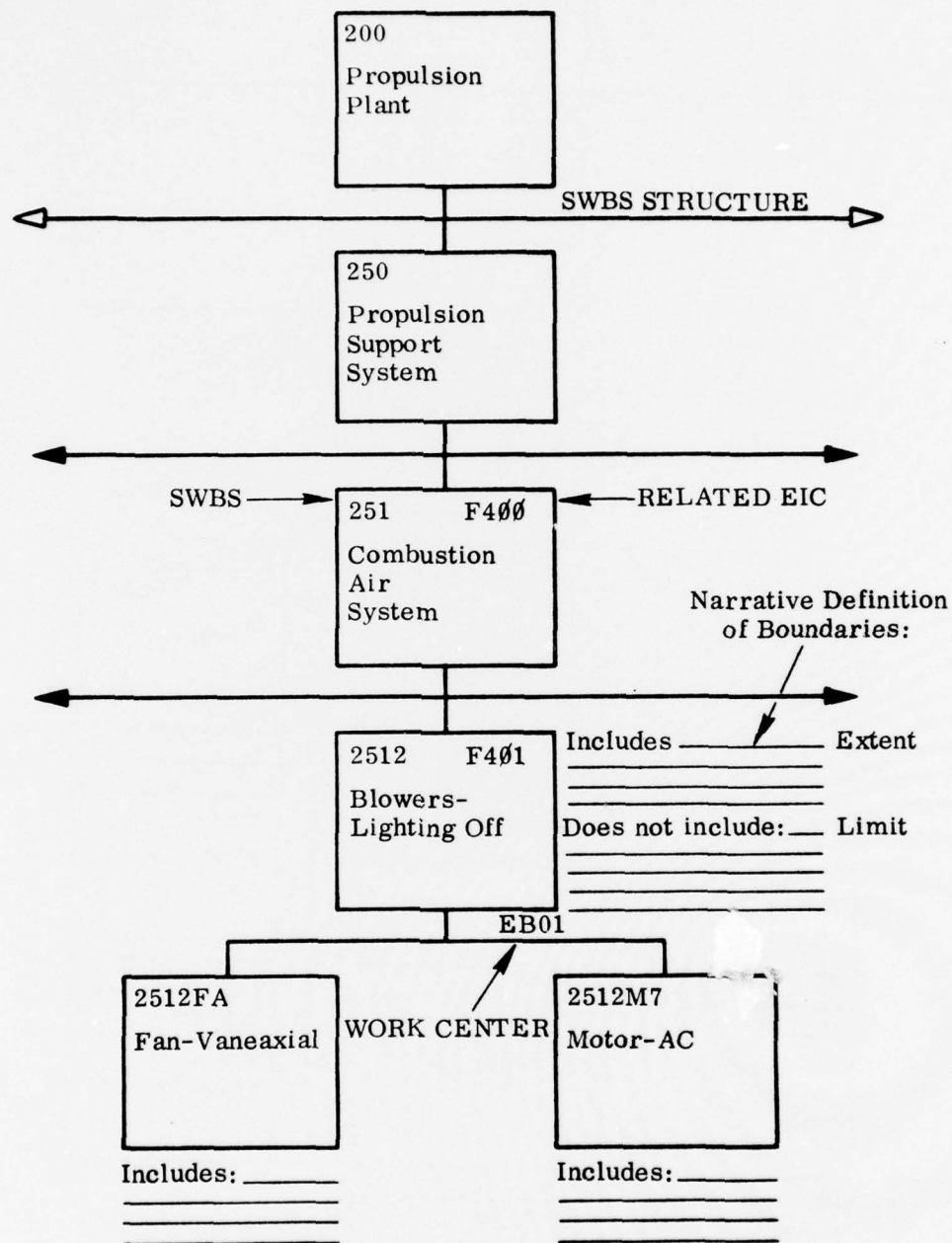


Figure 3. Example of System Diagrams Included in SSDI

In some cases, notably for the more complicated systems, the SSDI provides still further information in the form of line diagrams that:

- a. Show the major hardware items within the system boundaries and their interrelationships.
- b. Depict graphically the verbal descriptions given on system diagrams for selected SWBS-coded items. Those systems which are complex and interface with other complex systems are diagrammed as Figure 4 indicates.

In a line diagram, solid lines with the system boundary denote equipments or components which are part of that particular system. Dashed lines show interfaces between those equipments/components and elements of other systems (see Figure 4).

Although some line diagrams show functional relationships, that is not their intent. Their specific purpose is to aid in the identification of ship systems. For that reason the schematics are greatly simplified from the actual configuration. For example, although there may be two or more identical forced-draft blowers used in a condensate system, only one is shown on the schematic (see Figure 4). This is because all blowers of the same type are part of the same system.

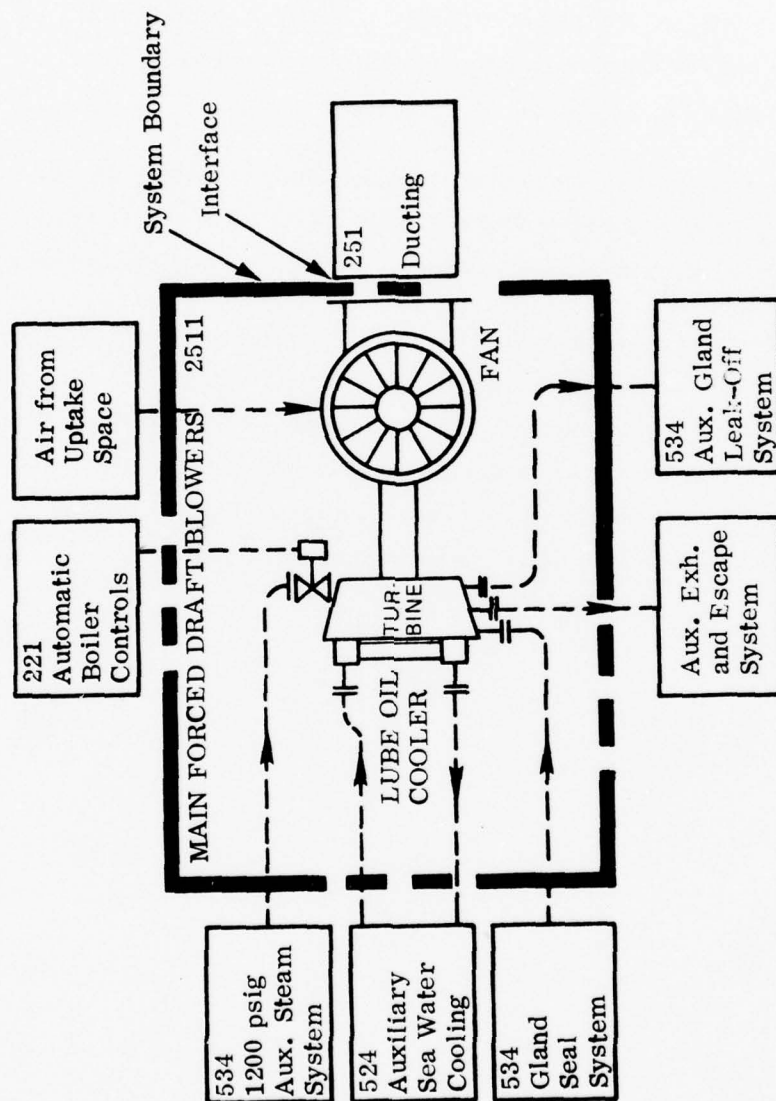


Figure 4. Example of Line Diagrams Included in SSDI



### 3 USES OF SSDI

Throughout a ship's life, ship's force personnel submit a vast amount of system, equipment, and parts information to their type commander and fleet support activities. Requests for alteration, reports of maintenance action, work requests, and parts requisitions are but a few examples. In each instance the submitted information must be related to a specific, definable portion of the ship.

In carrying out their responsibilities, the type commander and the support activities (PERAs, shipyards, etc.) must not only identify a specific item within the total ship, but also be aware of its interfaces. In planning alterations or modifications, for example, one must be able to identify the various systems that will be affected by a particular change to a ship's configuration. Also, when preparing for overhaul or other availabilities, the type commander, PERA, and repair activities must be able to organize a work package on the basis of specific as well as inter-related ship systems. This is done to ensure that the work package is completely and effectively defined.

Since so many activities are involved in supporting the ship, it is necessary that both ship and support personnel use a single, uniform language when communicating configuration information. The Ship Systems Definition and Index provides this common language by describing a specific ship in terms common to all ships of the fleet. Potential uses of the SSDI are outlined below.

#### 3.1 SSDI SUPPORT TO SHIP'S FORCE

##### 3.1.1 Maintenance

- a. Serves as a checklist for planning and conducting inspections.
- b. Provides the basis for comparing repair items with alterations.
- c. Aids in establishing repair priorities.
- d. Assists in identifying shipyard, ship's force, and tender interfaces.

- e. Assists in making manpower assignments by ensuring that all systems of the ship are considered.
- f. Aids ship's force in "buttoning up" all systems for post-repair testing.
- g. Aids in alteration planning and analysis by showing possible interfaces in terms of various ship systems.
- h. Aids in standardizing shipboard validation procedures.
- i. Provides a means for identifying deficiencies in shipboard documentation such as the Coordinated Shipboard Allowance List (COSAL), Planned Maintenance System (PMS), etc.
- j. Assists in identifying related Equipment Identification Codes (EIC) necessary for CSMP and Maintenance Data Collection System (MDCS) inputs.
- k. Provides a standard language for maintenance documentation.
- l. Provides a common set of system descriptions for the development of maintenance instructions (PMS) and operating instructions (Equipment Operational Sequencing System, EOSS).

#### 3.1.2 Operation

- a. Serves as a checklist for determining the completeness of EOSS coverage.
- b. Provides a means of identifying the interrelationships among operating systems.
- c. Identifies the boundaries for system testing.
- d. Provides a means of determining test equipment and support requirements.

#### 3.1.3 Training

- a. Provides a disciplined method for displaying a ship's configuration, thereby identifying training requirements from the equipment through the system level.

- b. Supports training shipboard operation/maintenance personnel in ship systems and system interfaces.

### 3.2 SSDI SUPPORT TO OTHER NAVAL ACTIVITIES

#### 3.2.1 PERAs/Shipyards/Industrial Activities

- a. Defines ship systems for alteration and repair planning.
- b. Provides a standard indexing language for:
  - Ship Alteration and Repair Package (SARP)
  - Specification preparation
  - Cost estimating and cost progressing
  - Drawing numbering
  - Material identification and ordering
  - POT&I planning and organization
  - Management information systems
- c. Assists in determining priorities of work by displaying the affected equipment in relation to its system.

#### 3.2.2 Ship Equipment Configuration Accounting System (SECAS)

- a. Provides a standard structure for total shipboard validation.
- b. Provides information for determining the desired level of validation.

#### 3.2.3 Technical Systems Commands (NAVSEA, NAVELEX, NAVSUP)

- a. Aids in determining the SWBS identification of alterations for inclusion in shipalt records and subsequently in other Navy data bases.
- b. Identifies ship systems such that the impact of alterations can be determined and decisions made concerning recommended priorities for inclusion in the Fleet Modernization Program (FMP).
- c. Provides a means for ensuring that standard failure-data correlation and analysis is performed to the desired level.

#### 3.2.4 Type Commanders (TYCOMs)

- a. Aids in determining work priorities by displaying the affected equipment in relation to its system.
- b. Identifies the system such that the impact of alterations can be determined and decisions made concerning recommended priorities for inclusion in the FMP.
- c. Enables the TYCOM to properly identify and budget the system for repairs.

#### 3.2.5 Naval Ships Engineering Center (NAVSEC)

- a. Provides a vehicle for ensuring that standard failure-data correlation and analysis is performed to the desired level.
- b. Defines the systems for design consideration and subsequent corrective measures such as the Detection, Action, Response Technique (DART) program.
- c. Provides information for determining the required level of repair parts support requirements.

#### 3.2.6 Fleet Support Activities

- a. Identifies shipboard systems as an aid in determining personnel and material requirements in response to solving specific ship problems.
- b. Serves as a tool for establishing required support capabilities (people and equipment).

## SSDI FOR DDG-2 CLASS SHIPS

## 4.1 SSDI INDEX

The SSDI for DDG-2 class ships is presented on the following pages. The diagrams are presented in the order indicated below.

a. Index Diagrams	<u>Page</u>
Overall	17
100 - Hull Structure	18
200 - Propulsion Plant	19
300 - Electric Plant	20
400 - Command and Surveillance	21
500 - Auxiliary Systems	22
600 - Outfit and Furnishings	23
700 - Armament	24
800 - Integration/Engineering	25
b. Legend of Symbols	27
c. SSDIs	
100 - Hull Structure	31
200 - Propulsion Plant	43
300 - Electric Plant	85
400 - Command and Surveillance	99
500 - Auxiliary Systems	137
600 - Outfit and Furnishings	189
700 - Armament	213
800 - Integration/Engineering	229

The Legend of Symbols supports the line diagrams that accompany certain of the ship system diagrams.

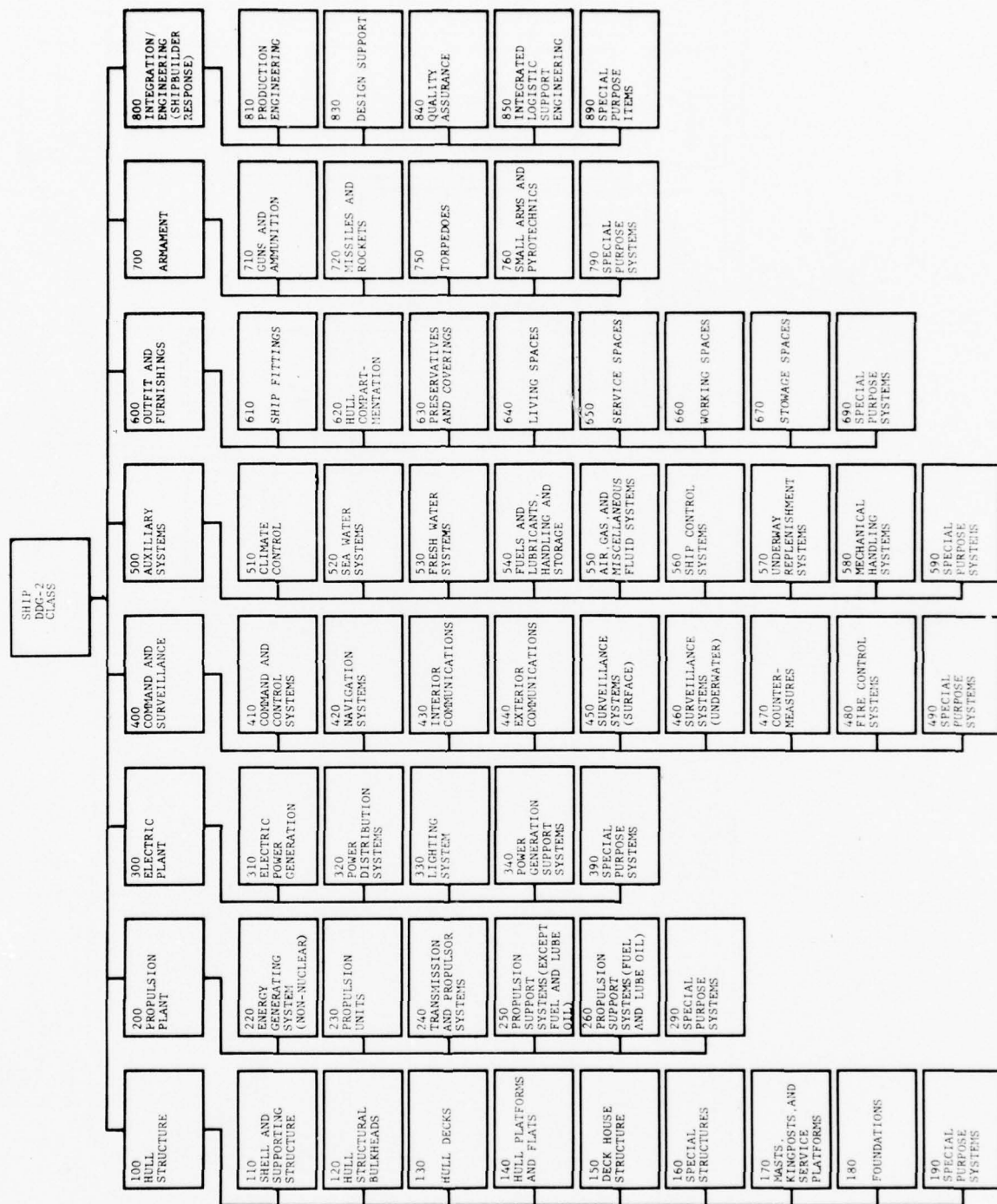


#### 4.2 GENERAL COMMENTS

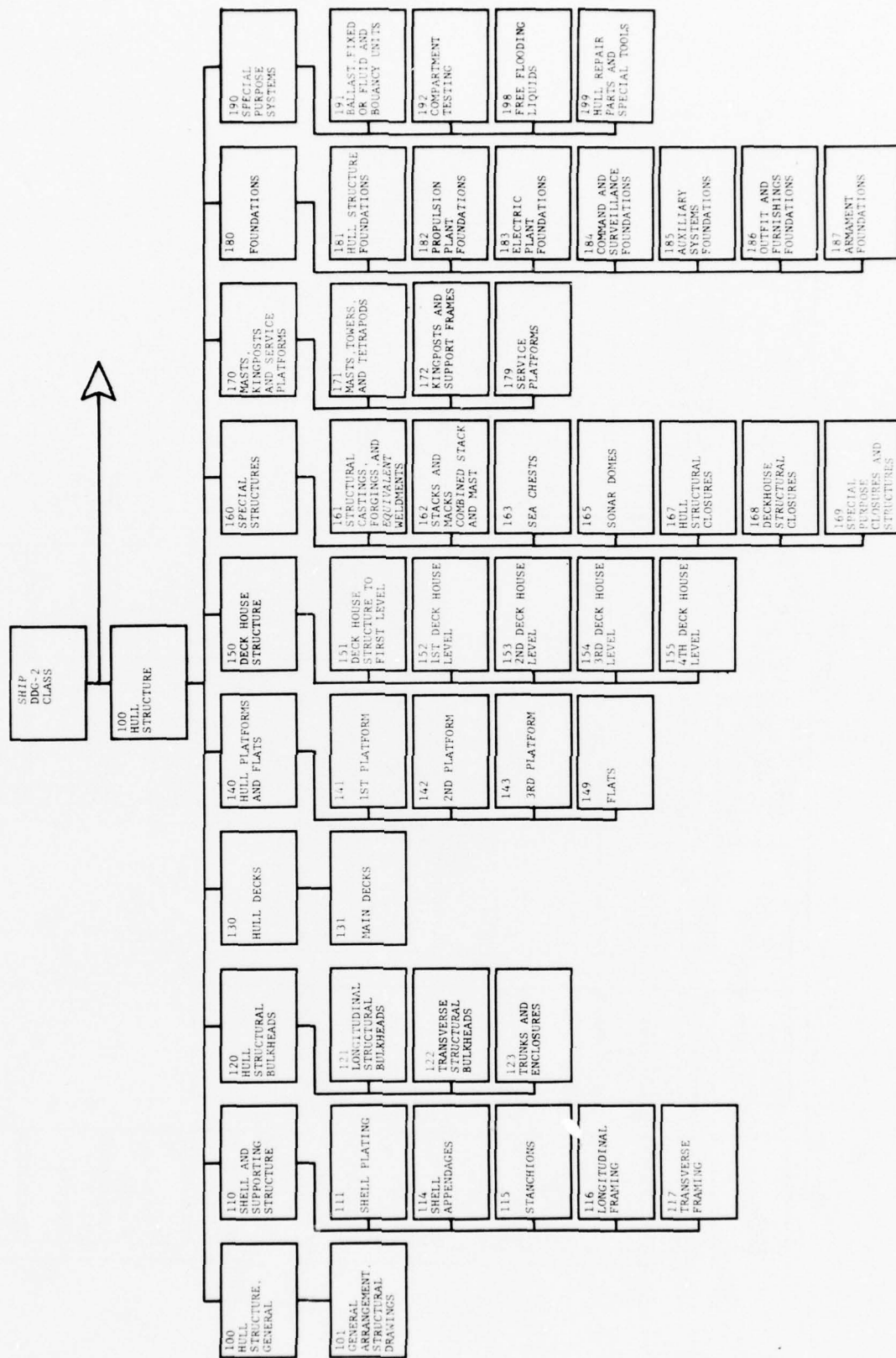
The following general comments apply to the DDG-2 class SSDIs:

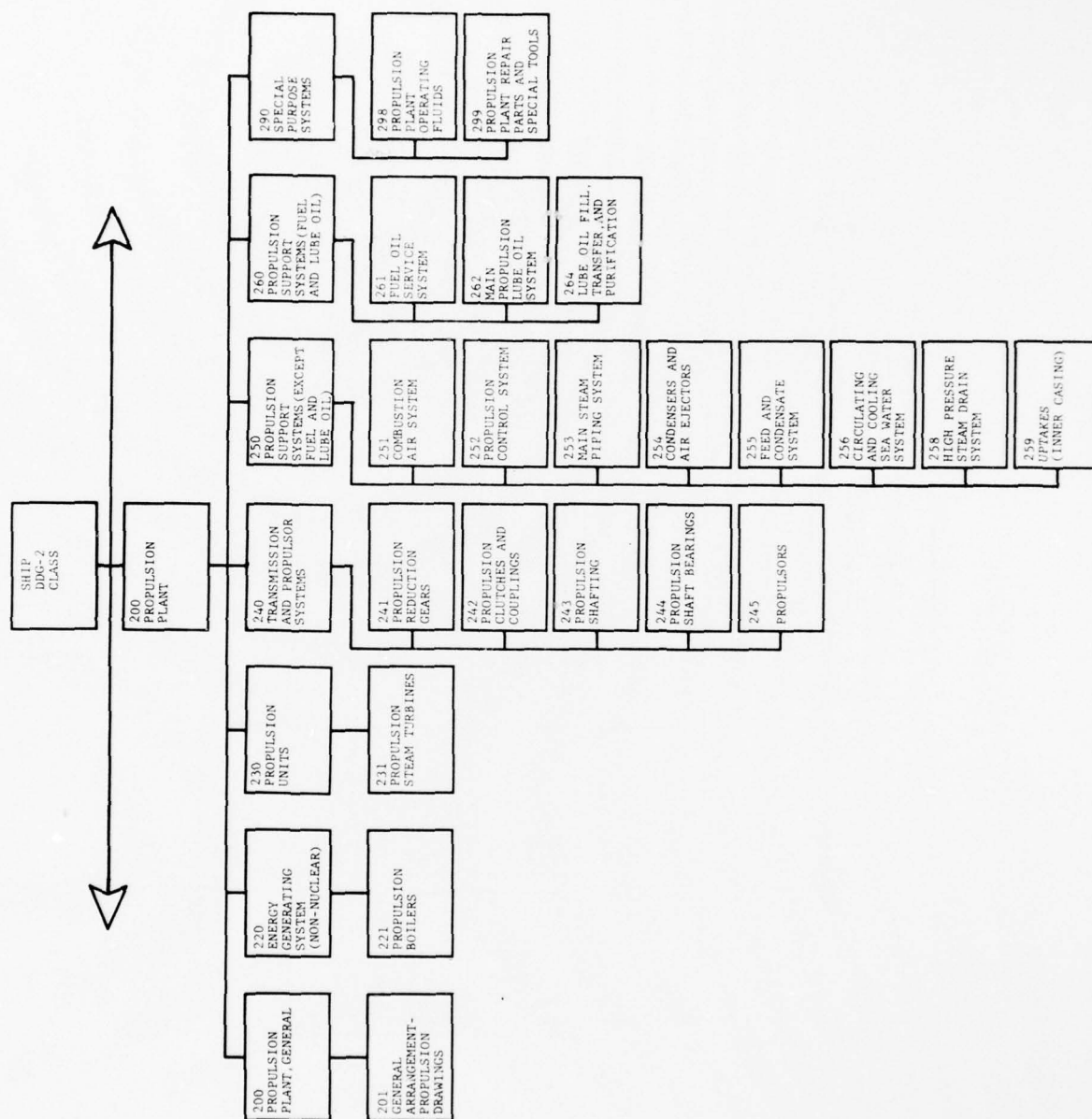
- a. This SSDI is structured to encompass the entire DDG-2 class, i.e., all identified combinations of systems and equipments have been included. Individual ships will not necessarily have all identified components because of such conditions as ship alterations that have/have not been accomplished, variations due to construction differences, etc.
- b. In each WBS group, elements X01 through X09 are used for general requirements, and element X98 for operating liquids. These nonhardware elements are indicated by dashed blocks.
- c. To maintain the principle of having equipments/components at the fifth level, some element titles have been repeated at the fourth and fifth levels and appropriately numbered, e.g., element 115.
- d. The term "With System", or "W.S.", indicates that the item is coded with the system of which it is a part or which it serves.
- e. EIC cross-references are entered only blocks with a direct cross-reference, i.e., same system, subsystem, equipment as an SWBS classification.
- f. Work center assignments are representative. Use of the SSDI for specific ships of the class will require verification of applicable work centers.
- g. Elements where no specific equipments can be identified at this time (e.g., future installations) are shown by double-dashed blocks.

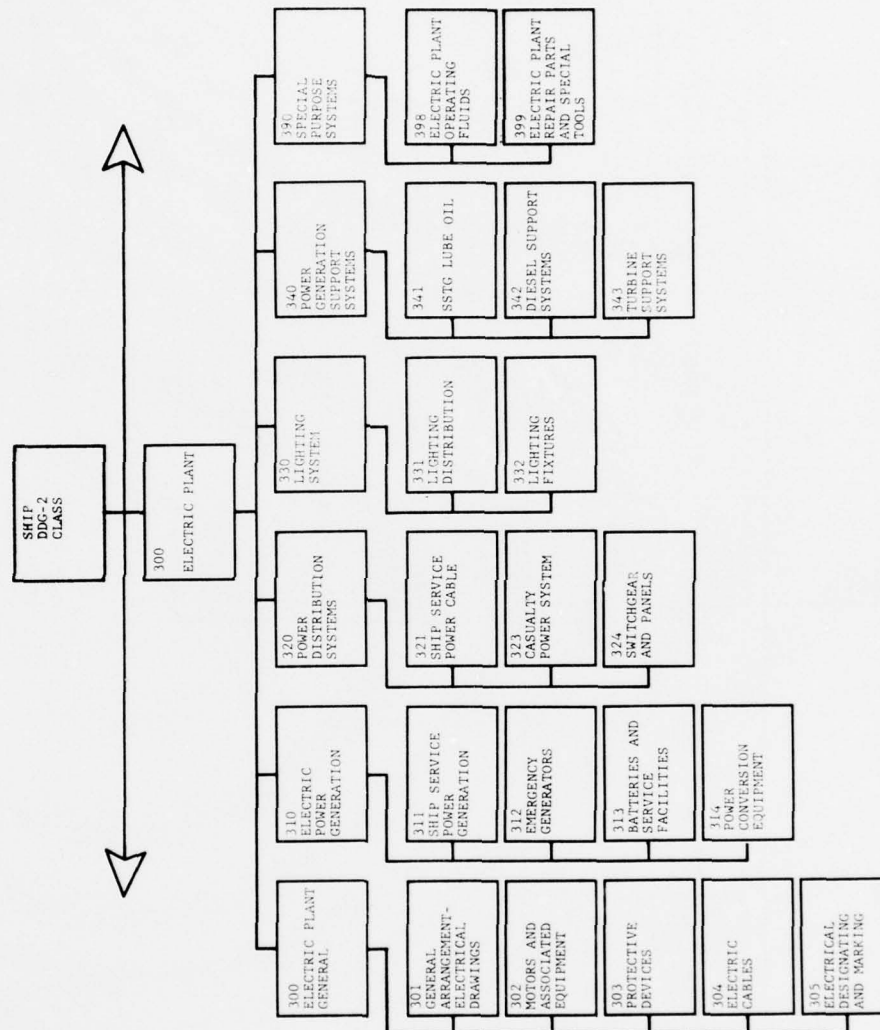
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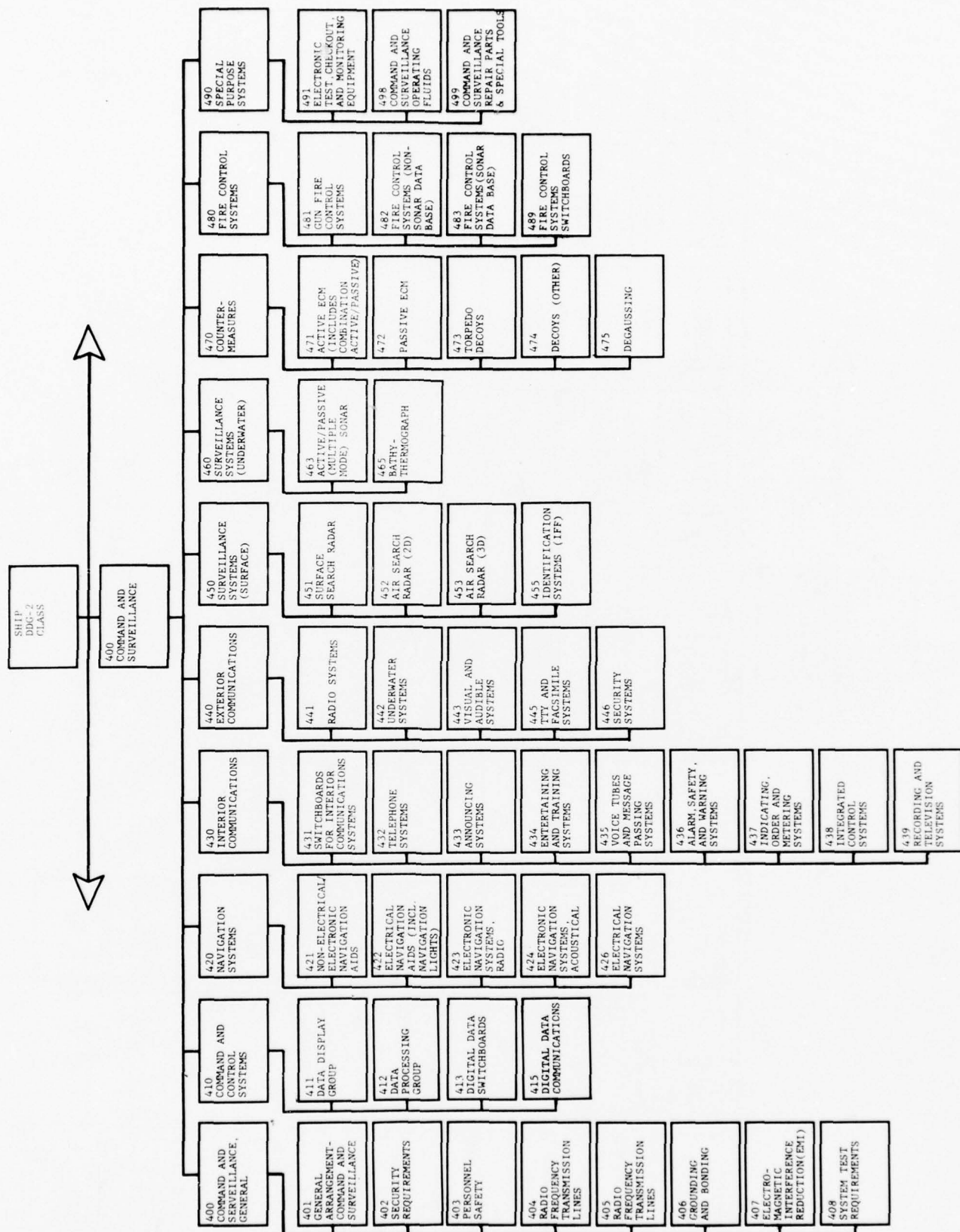


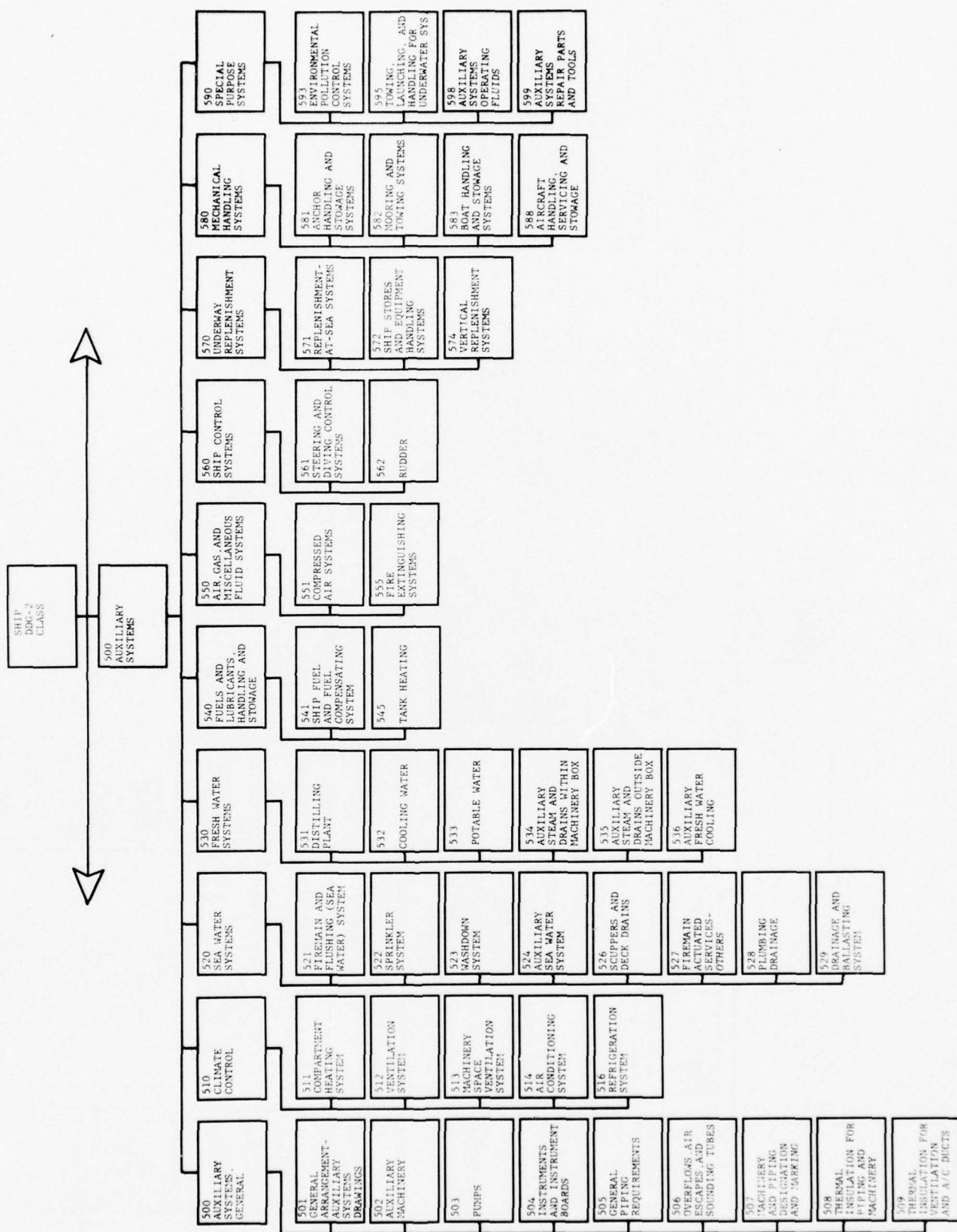




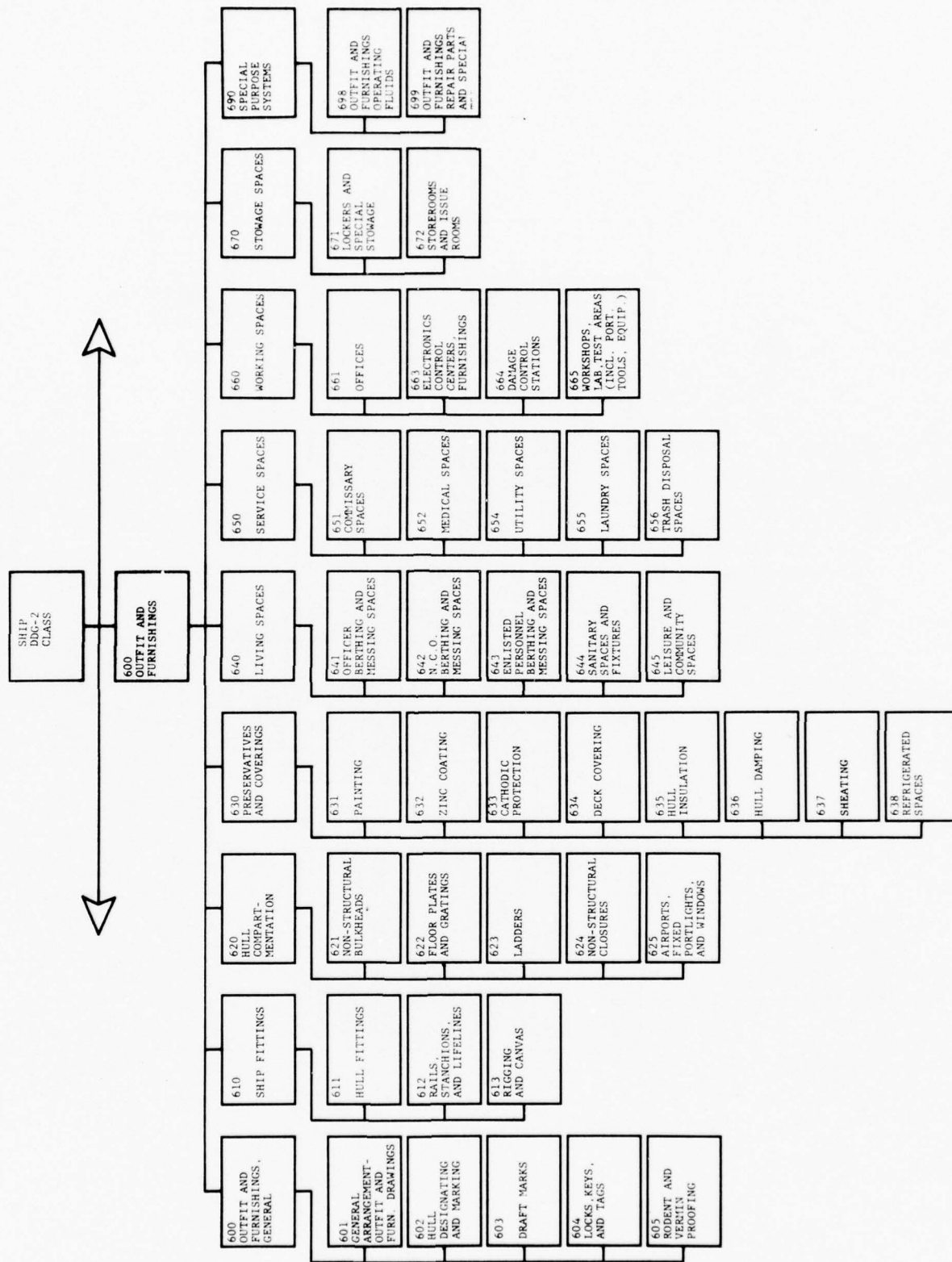


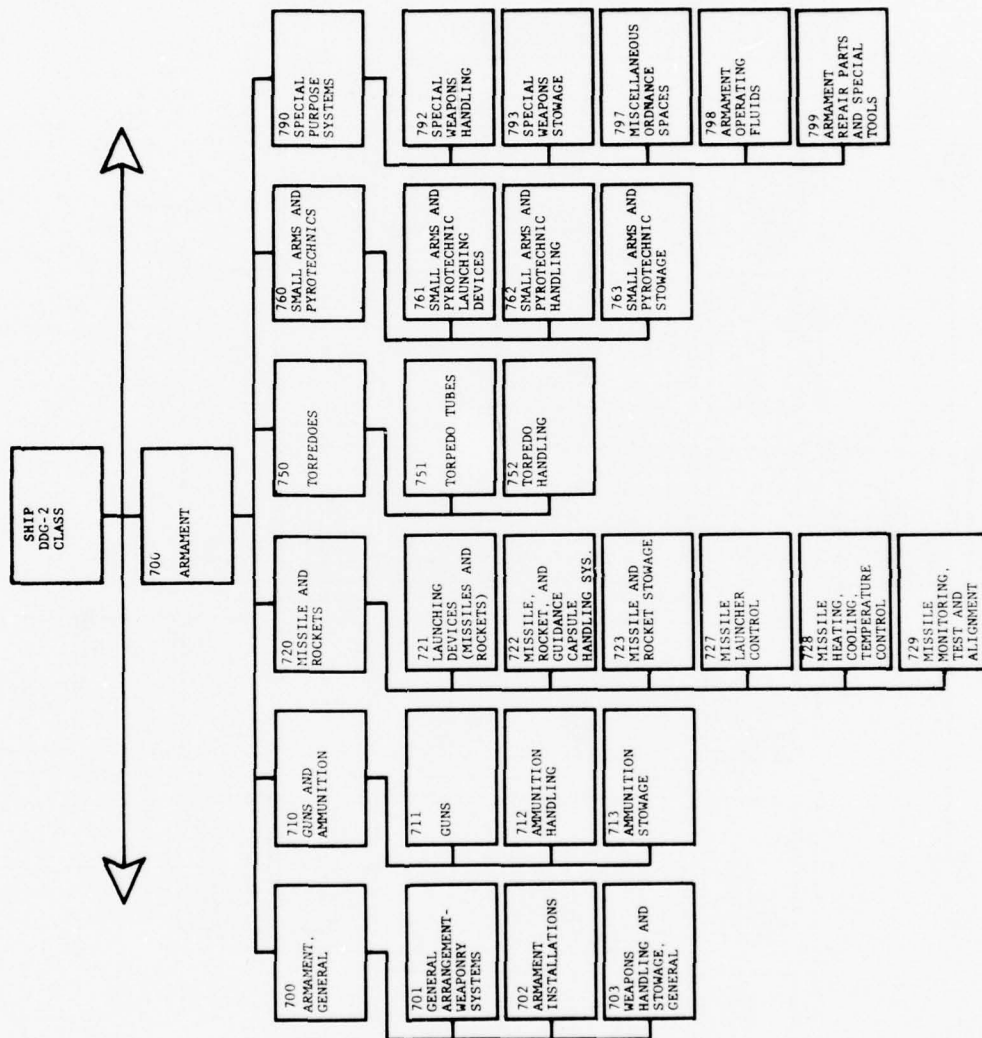


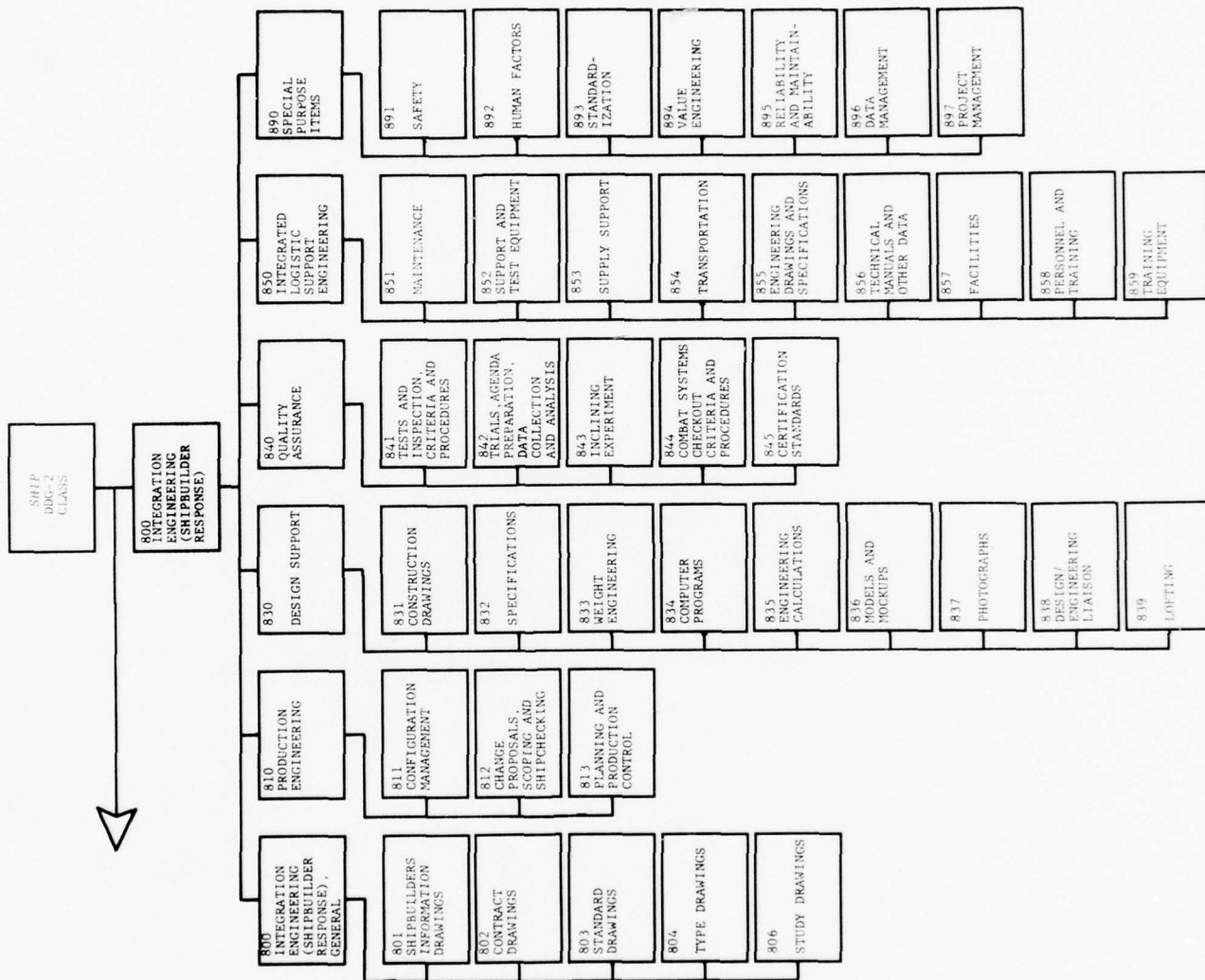





























































































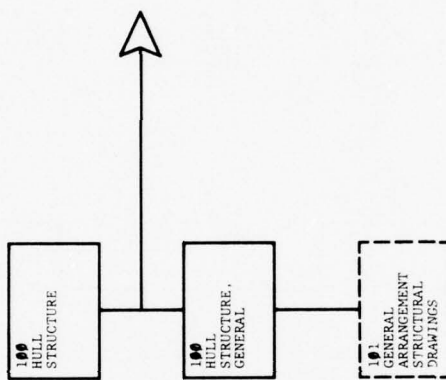


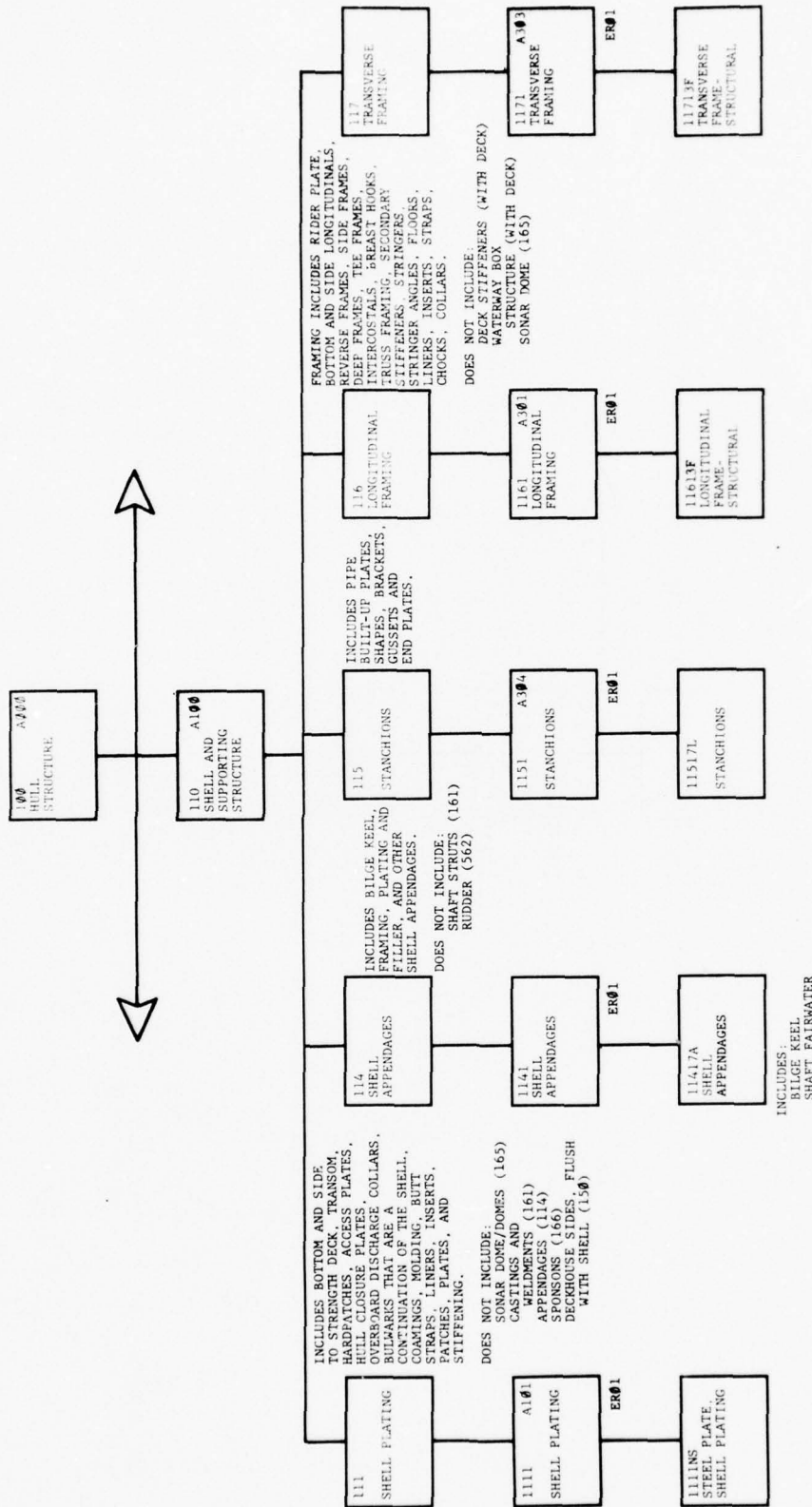
LEGEND OF SYMBOLS	
SYMBOL	DESCRIPTION
	GLOBE VALVE
	GLOBE VALVE, LOCKED OPEN
	GLOBE VALVE, LOCKED CLOSED
	GLOBE VALVE, MANUALLY OPERATED IN PLACE OR PNEUMATICALLY FROM MAIN DECK
	AIR MOTOR OPERATED VALVE
	GLOBE VALVE WITH MANUAL GEAR OPERATED IN PLACE AND ADJACENT SPACE
	GLOBE VALVE, ANGLE
	GLOBE VALVE, REMOTE OPERATED
	GLOBE STOP CHECK VALVE
	GATE VALVE
	BUTTERFLY VALVE
	SWING CHECK VALVE
	LIFT CHECK VALVE
	NEEDLE VALVE
	STOP COCK PLUG OR CYLINDER VALVE 3 WAY, 2 PORT
	CONTROLLED VALVE, BOILER FEED
	PRESSURE REDUCING OR PRESSURE REGULATING INCREASED ACTUATING PRESSURE CLOSES
	PRESSURE REDUCING OR PRESSURE REGULATING DECREASED ACTUATING PRESSURE CLOSES
	PRESSURE REGULATING VALVE AIR PILOT OPERATED
	PUMP GOVERNOR
	THERMOSTATICALLY CONTROLLED VALVE
	DUMP VALVE
	PILOT VALVE
	FLOAT OPERATED VALVE
	ANGLE LIFT CHECK VALVE
	CONTROL VALVE
	HOSE CONNECTION AND GLOBE VALVE

NOTE: VALVES OTHER THAN THE GLOBE VALVE MAY USE THE MODIFIERS SHOWN.  
IN ADDITION COMBINATIONS OF VALVE MODIFIERS MAY BE USED.

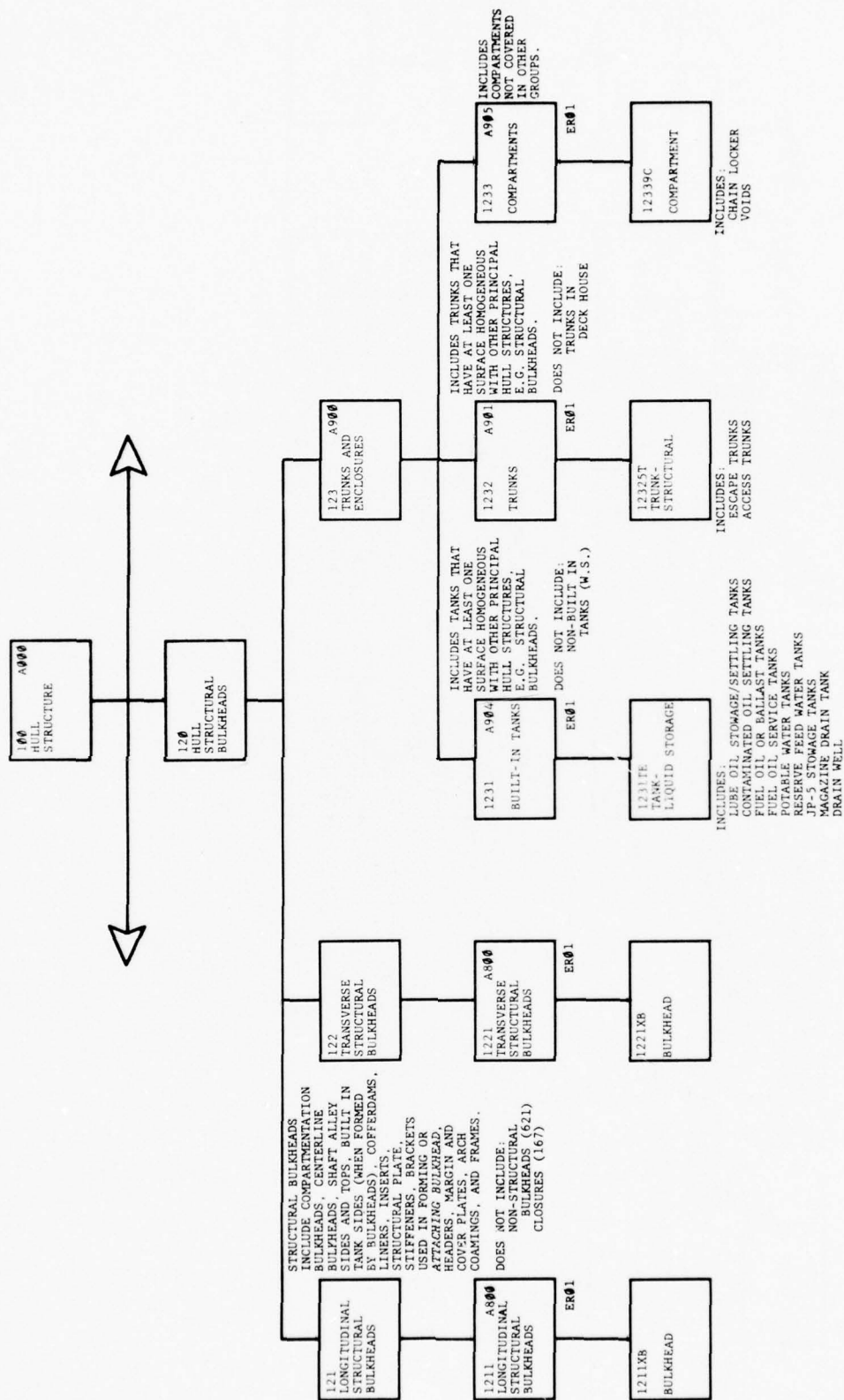
LEGEND OF SYMBOLS	
SYMBOL	DESCRIPTION
	VENT
	BOILER DRUM SAFETY VALVE
	ANGLE RELIEF VALVE (ENCLOSED SPRING)
	COMBINED EXHAUST AND RELIEF VALVE
	PRESSURE GAUGE
	VACUUM - PRESSURE GAUGE
	DUPLEX PRESSURE GAUGE
	ABSOLUTE PRESSURE GAUGE
	DISTANT READING PRESSURE GAUGE
	DISTANT READING THERMOMETER
	SIGHT READING THERMOMETER
	THERMO ELEMENT
	METER SIGHT FLOW
	PRESSURE BREAKDOWN ORIFICE
	OPEN FUNNEL
	SPECTACLE FLANGE
	DUPLEX STRAINER
	Y STRAINER
	STRAINER
	IMPULSE TRAP & STRAINER
	SALINITY CELL
	ORIFICE PLATE
	MOTOR CONTROLLER
	TEST TEE
	DESUPERHEATER
	MANIFOLD
	REDUCER

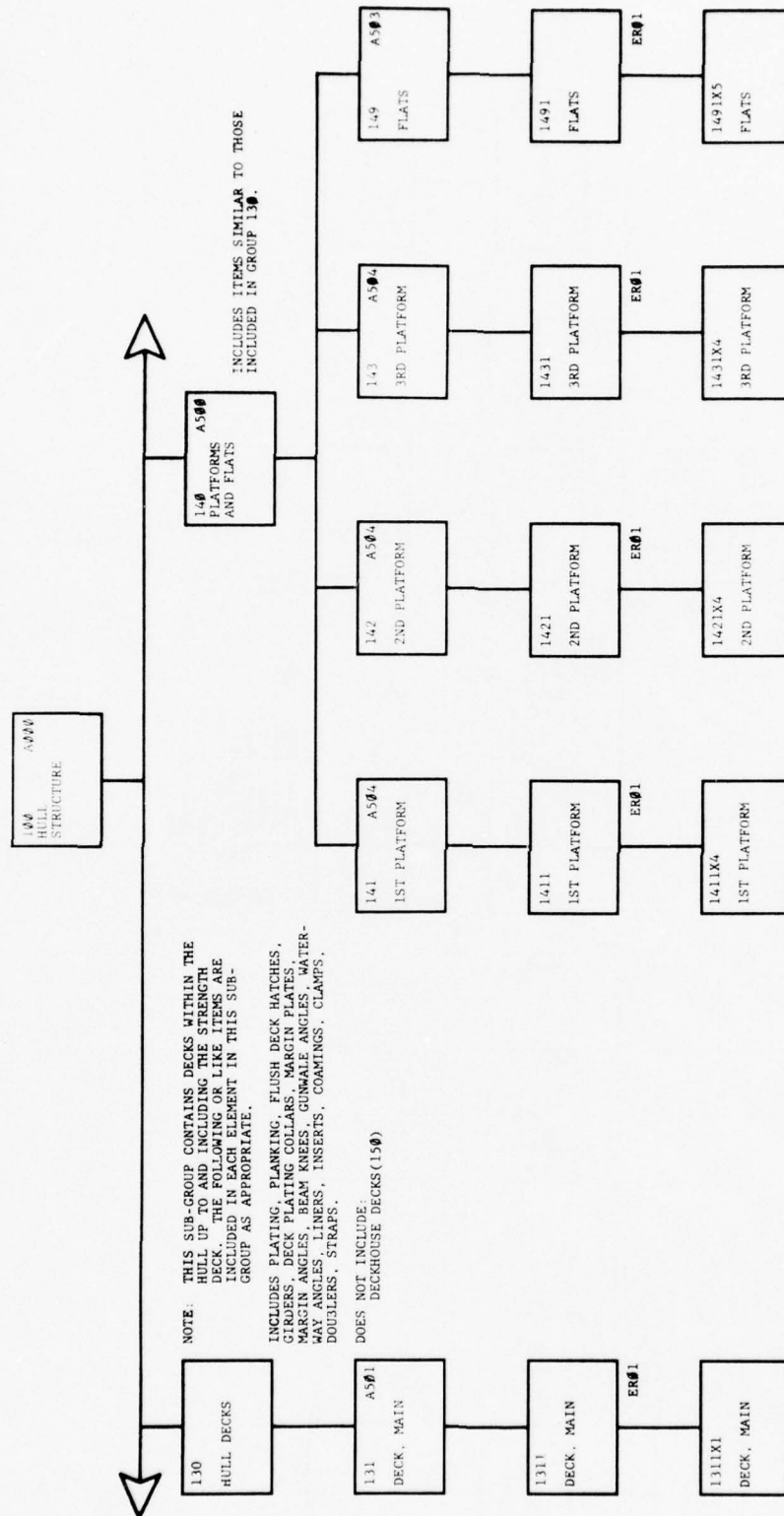
LEGEND OF SYMBOLS	
SYMBOL	DESCRIPTION
	PUSHBUTTON & INDICATOR LIGHT
	PUSHBUTTON
	EXPANSION JOINT
	GAGE GLASS
	DUPLEX (TWIN BASKET) MAGNETIC STRAINER
	THERMOCOUPLE CONNECTION OR THERMOSTAT
	THERMOMETER ANY ANGLE DIAL, BARE BULB TYPE DIRECT READING
	THERMOMETER DISTANT READING BARE BULB TYPE
	CONSTANT FLOW FITTING
	FUNNEL WITH SWING COVER
	CONCENTRIC REDUCER
	REDUCER
	HOSE ADAPTER
	SOUND ISOLATION FITTING
	FLEXIBLE HOSE
	FLOW MEASURING NOZZLE
	SHAFT TURBINE END, COUPLING OIL SPRAY
	ANGLE STOP VALVE
	BALL CHECK STOP VALVE
	PRESSURE VENT
	LOCK SHIELD VALVE, HIGH LIFT
	BOTTOM BLOWDOWN VALVE, HIGH LIFT
	TOP BLOWDOWN VALVE, HIGH LIFT
	AIR OPERATED VALVE SPRING CLOSING
	AUTOMATIC RECIRCULATING VALVE
	CROSS VALVE
	MOTOR PRESSURE SWITCH
	LIMIT SWITCHES

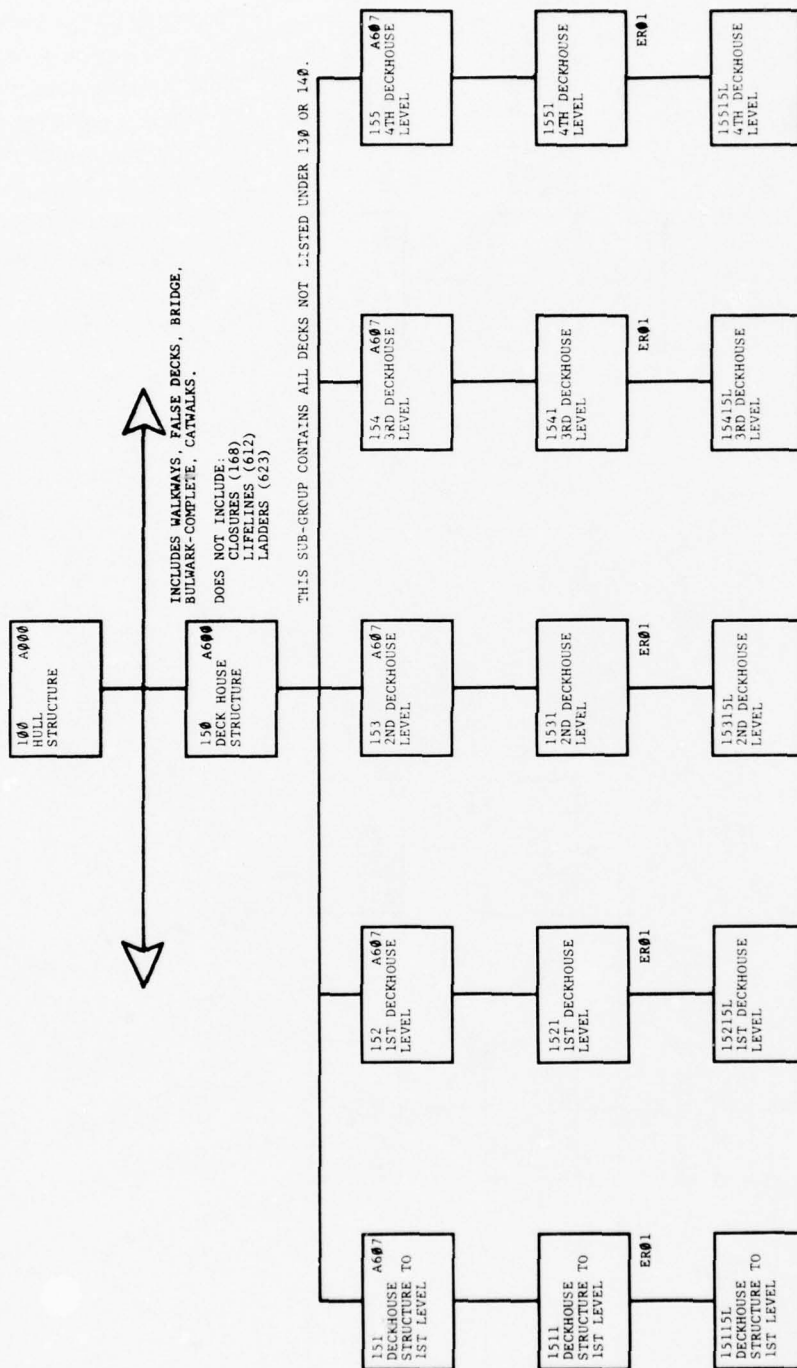


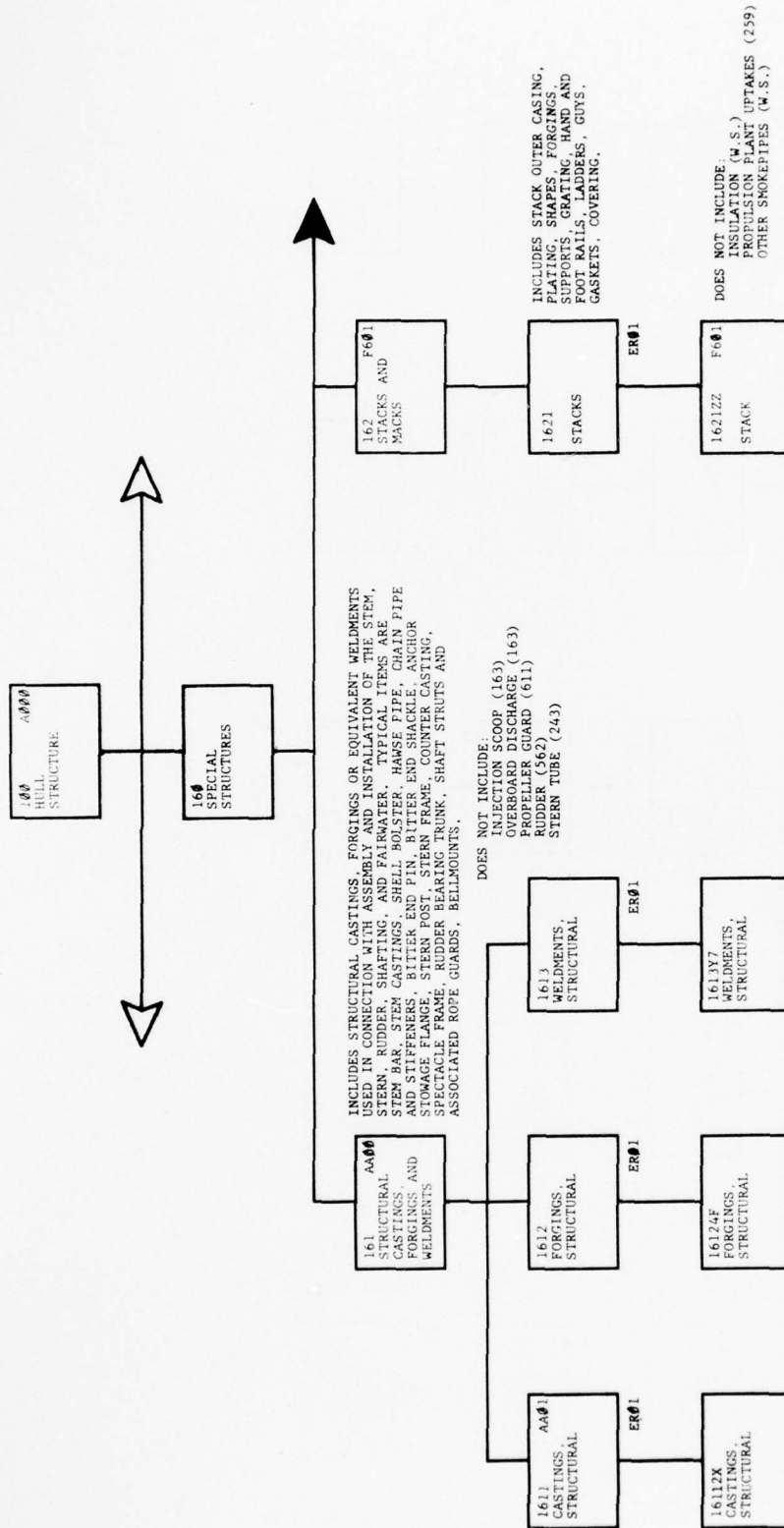


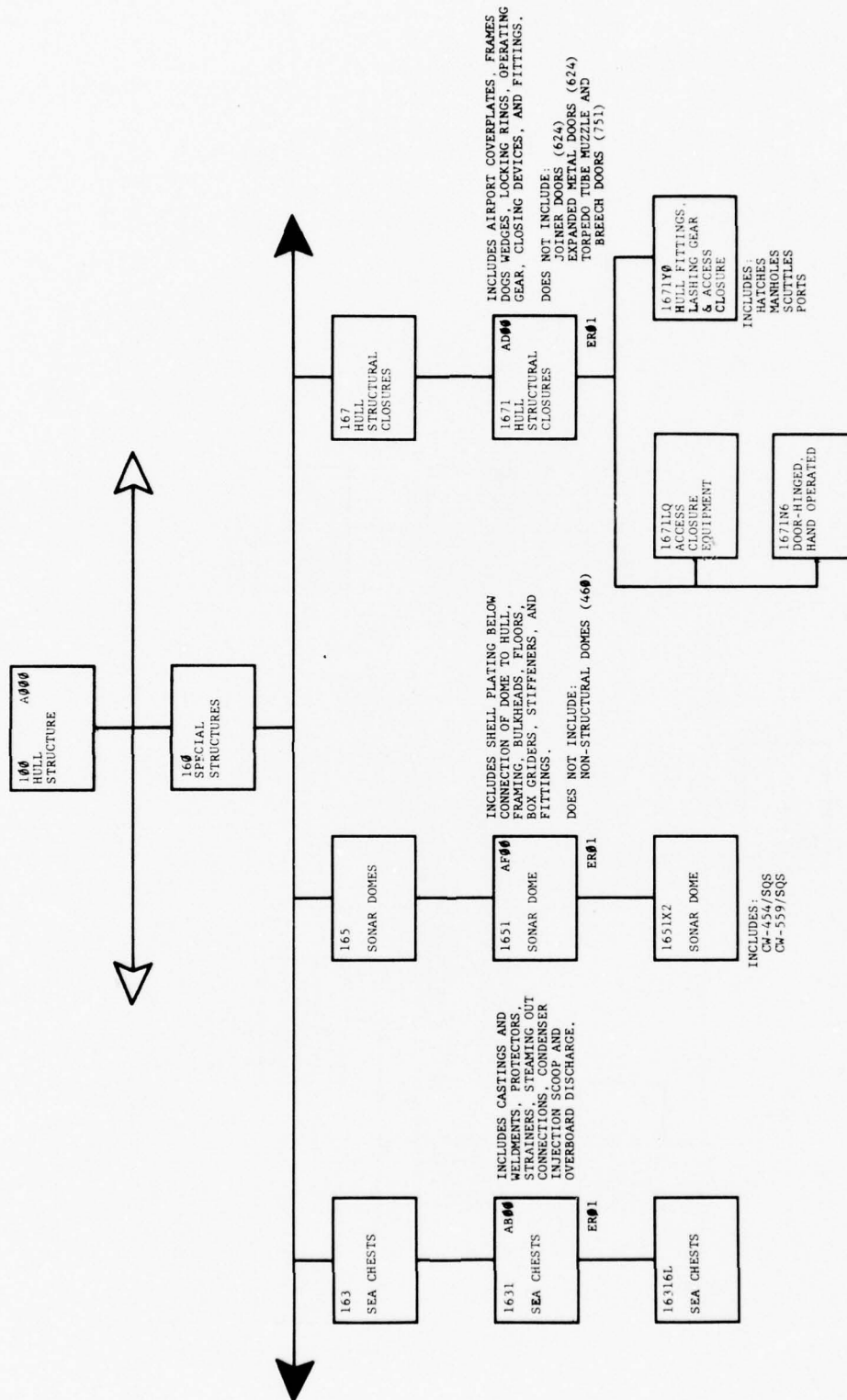




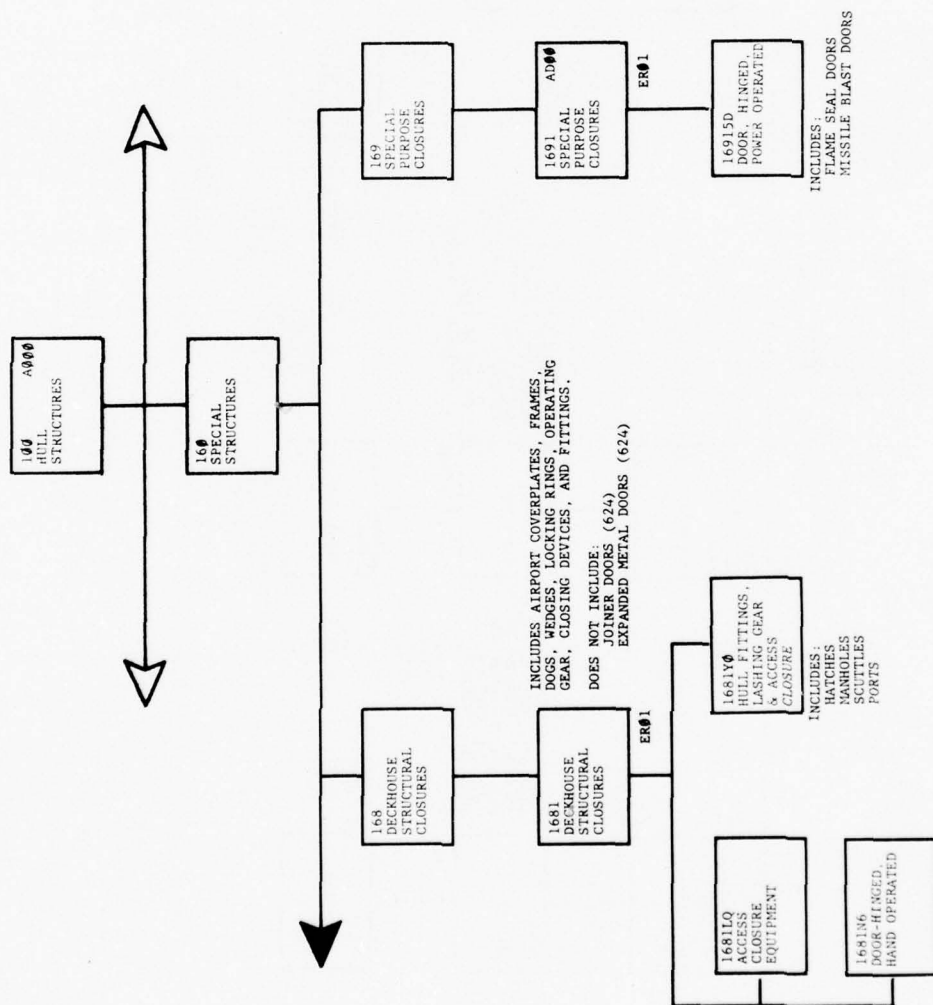


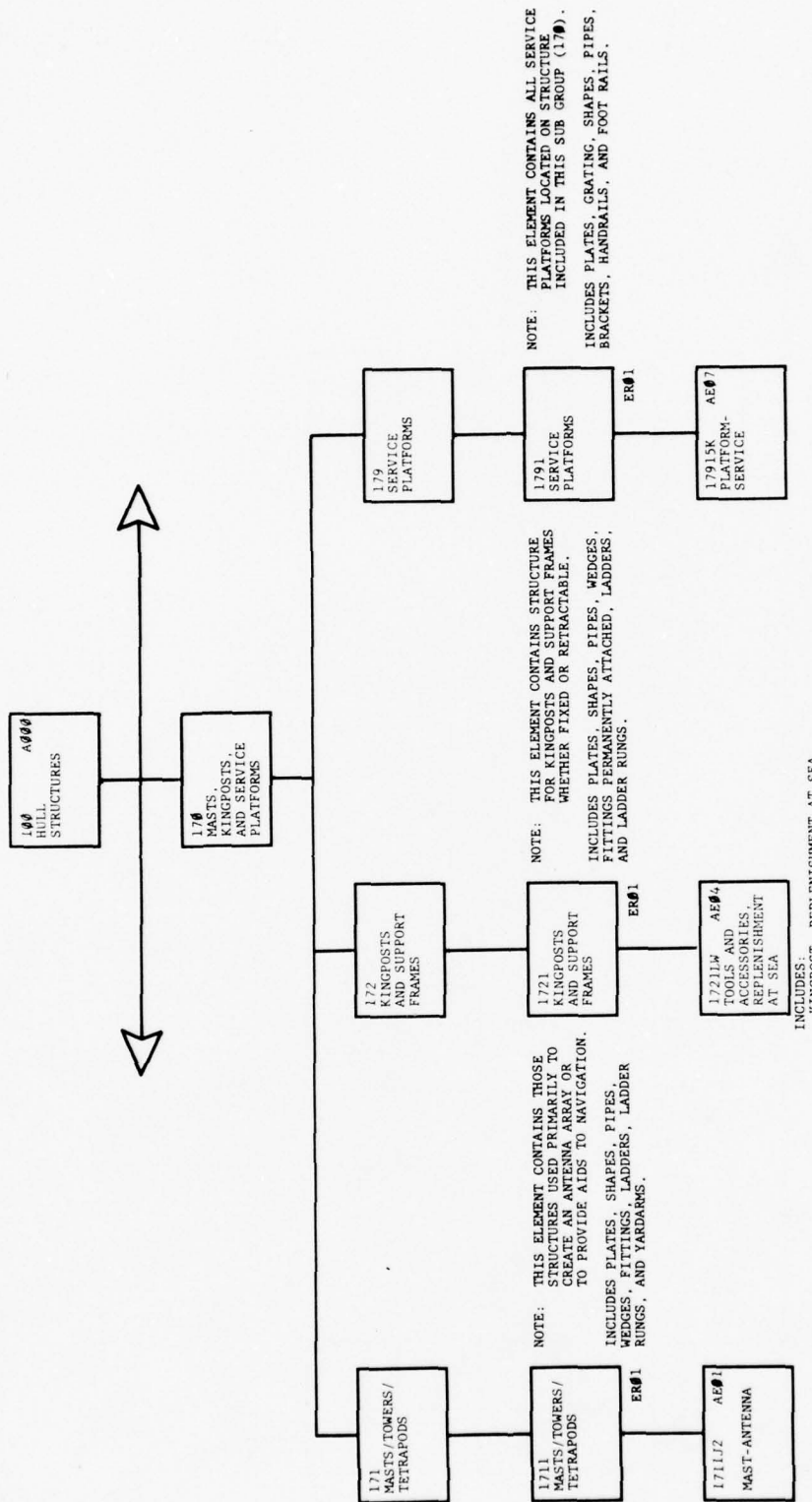


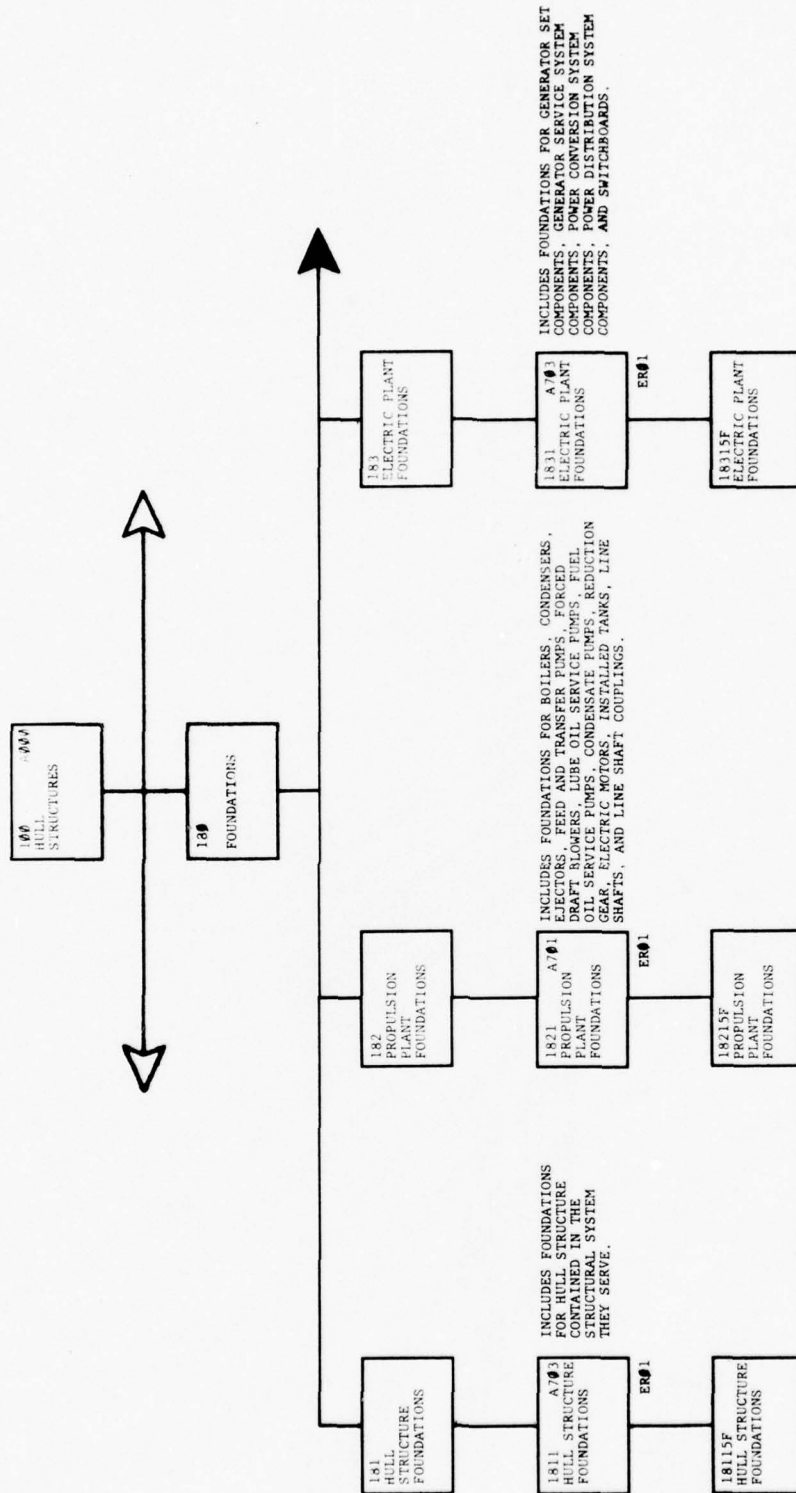


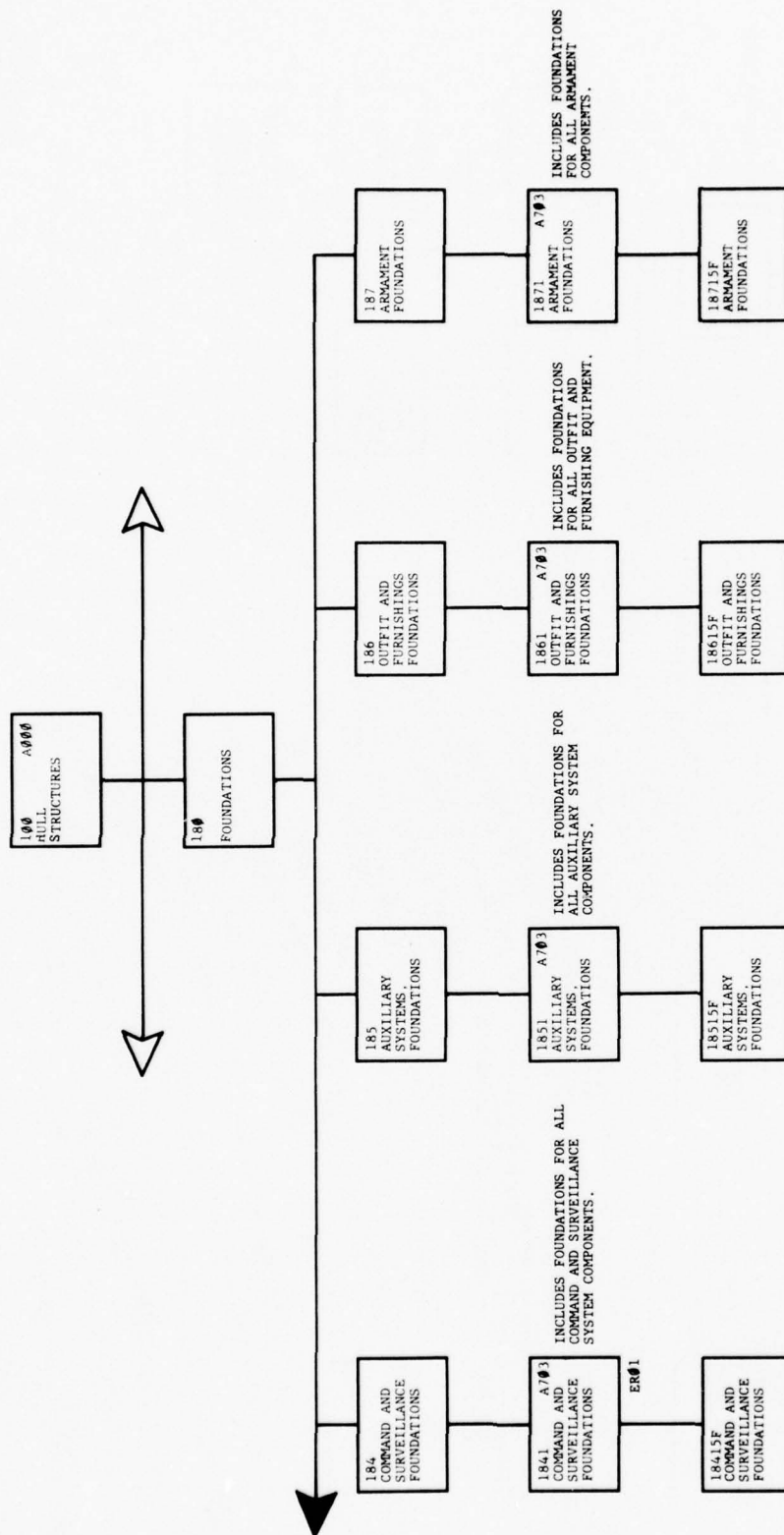


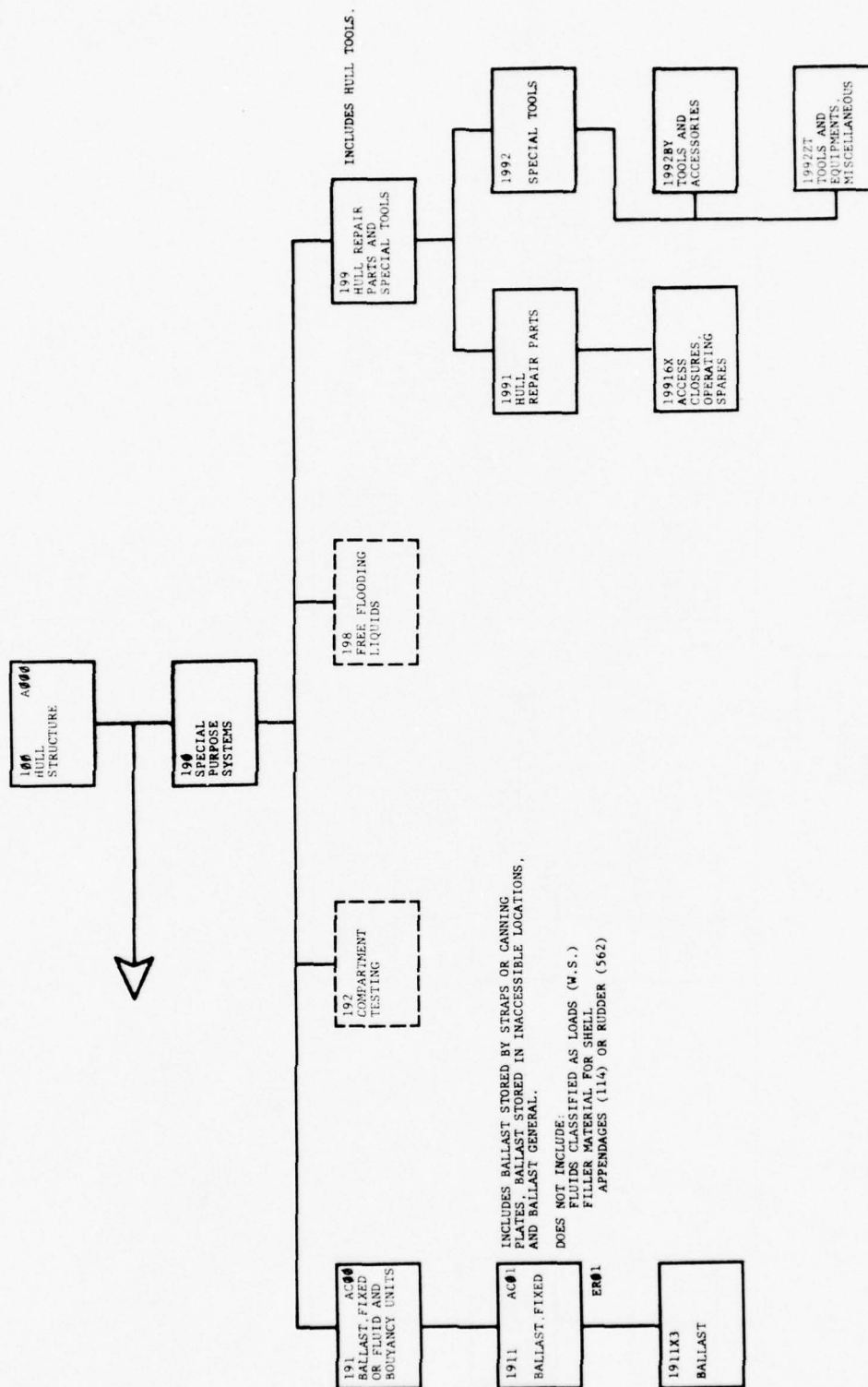








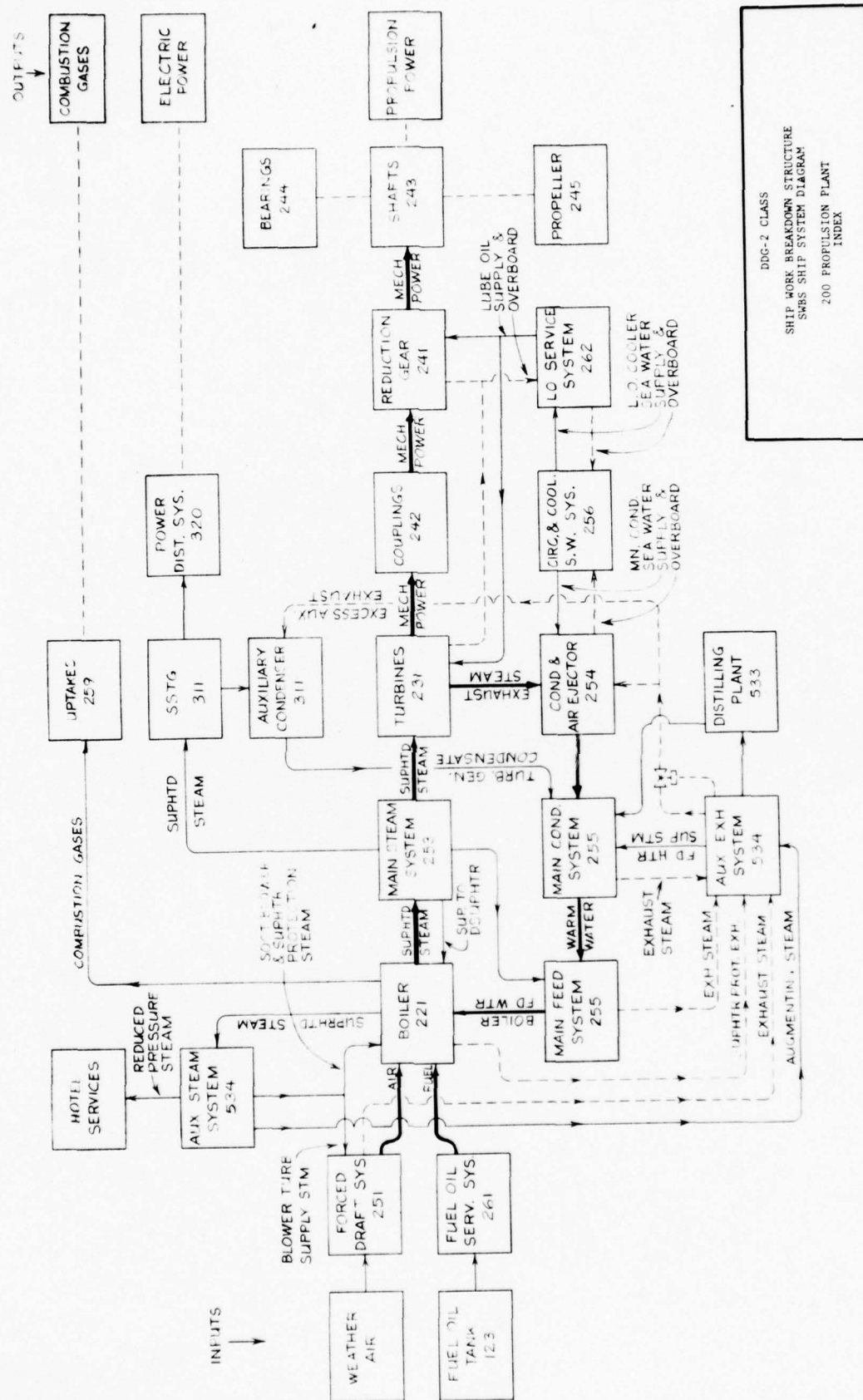


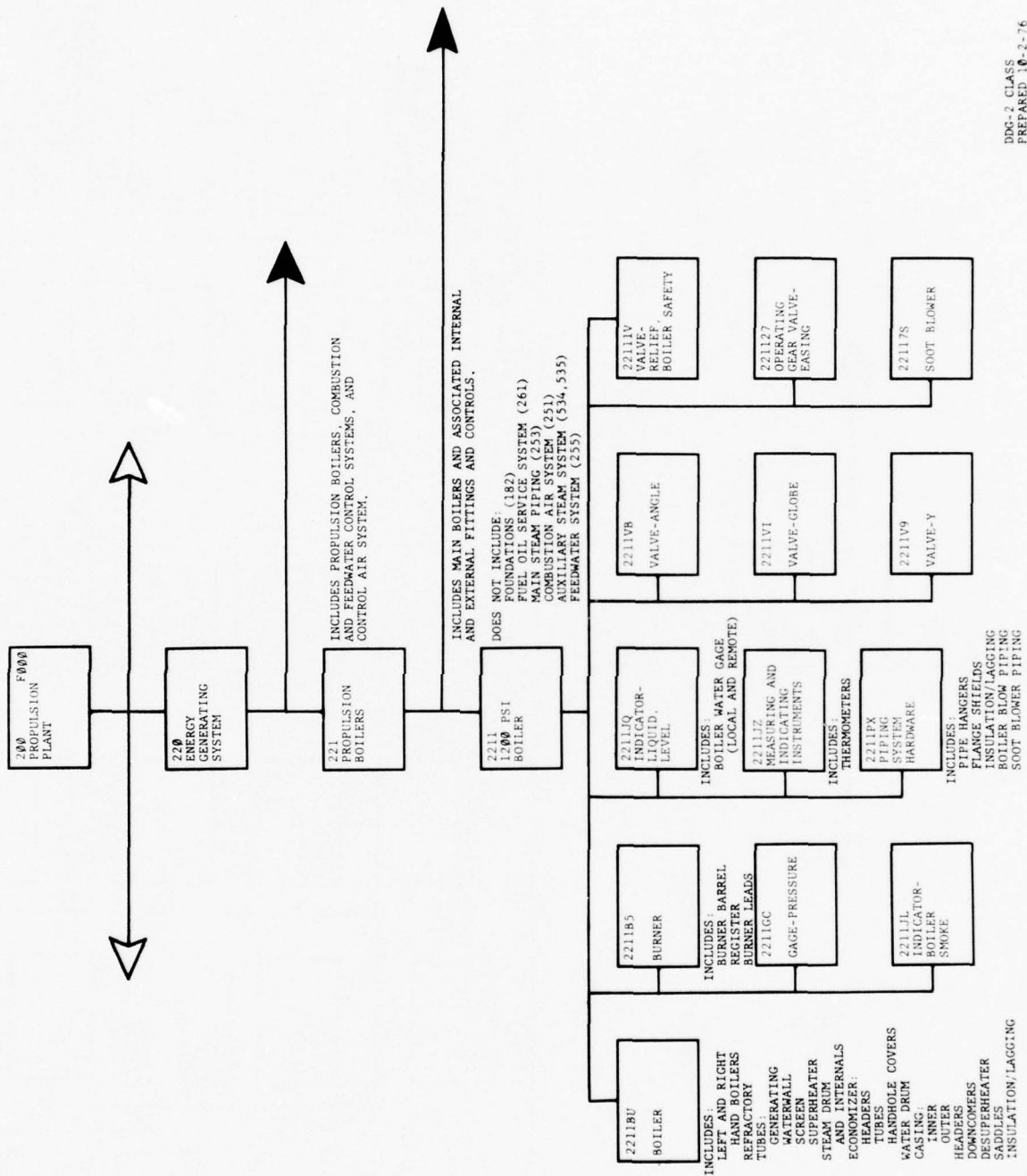


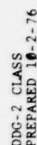


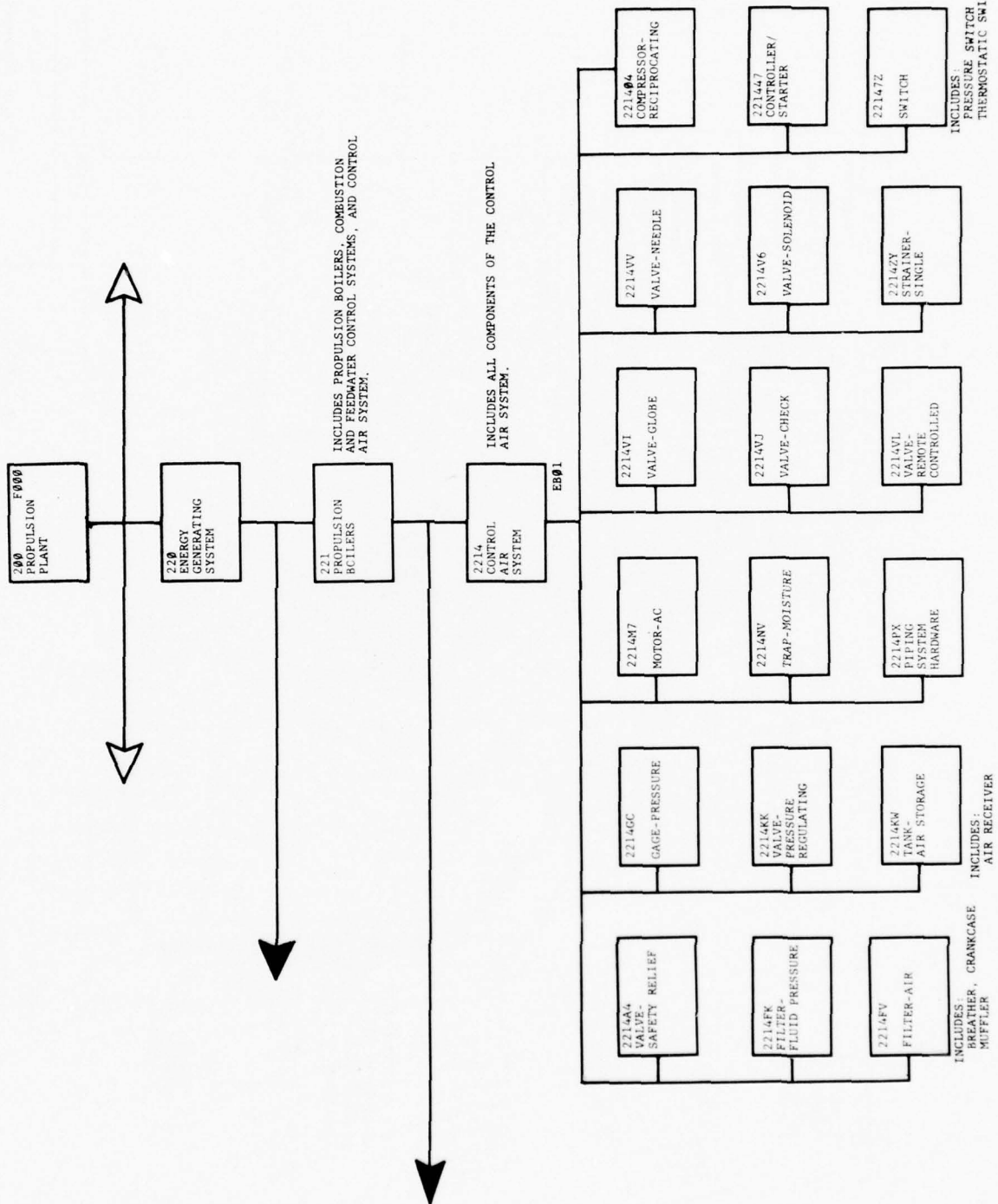


DDG-2 CLASS  
PREPARED 9-28-76

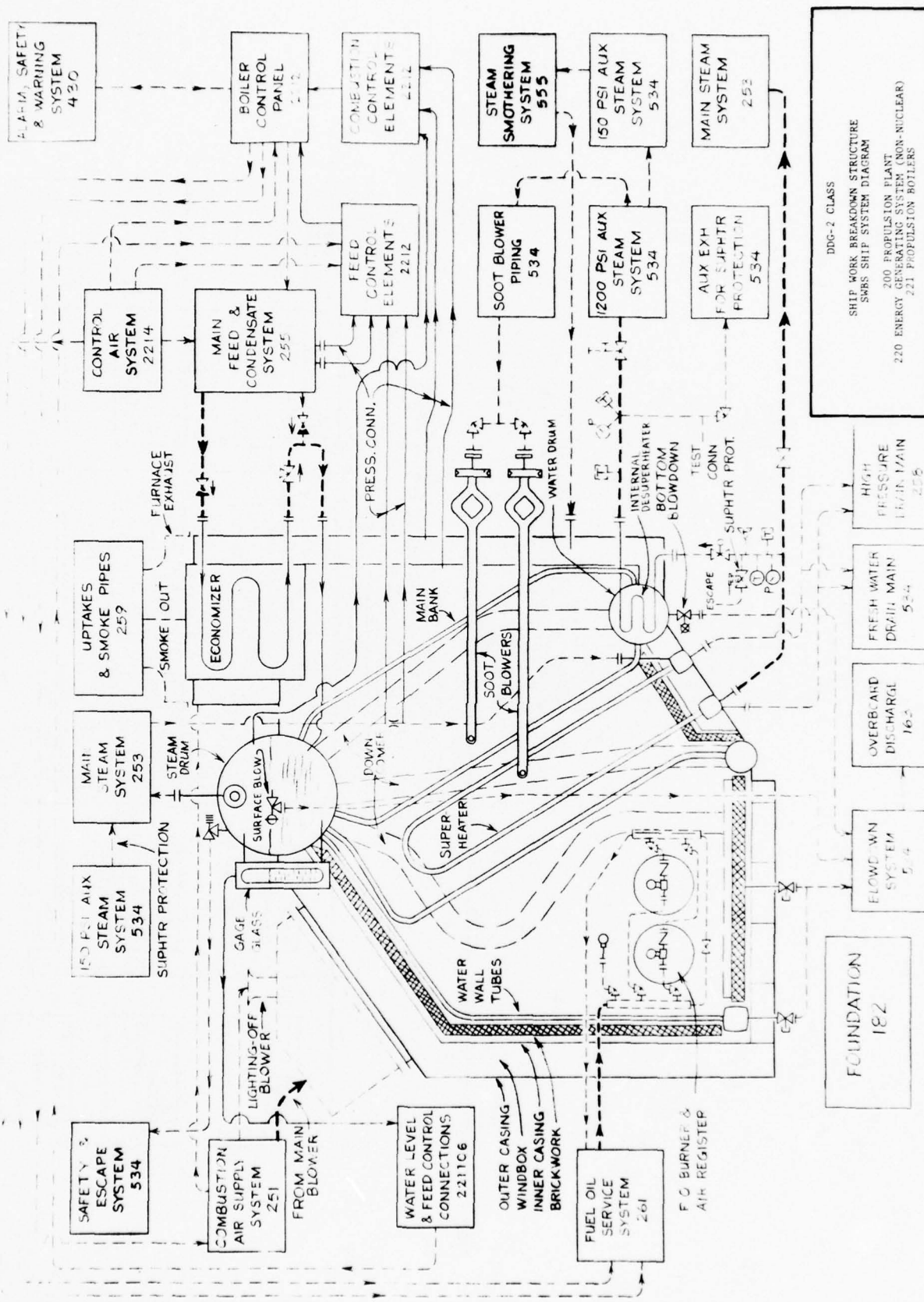


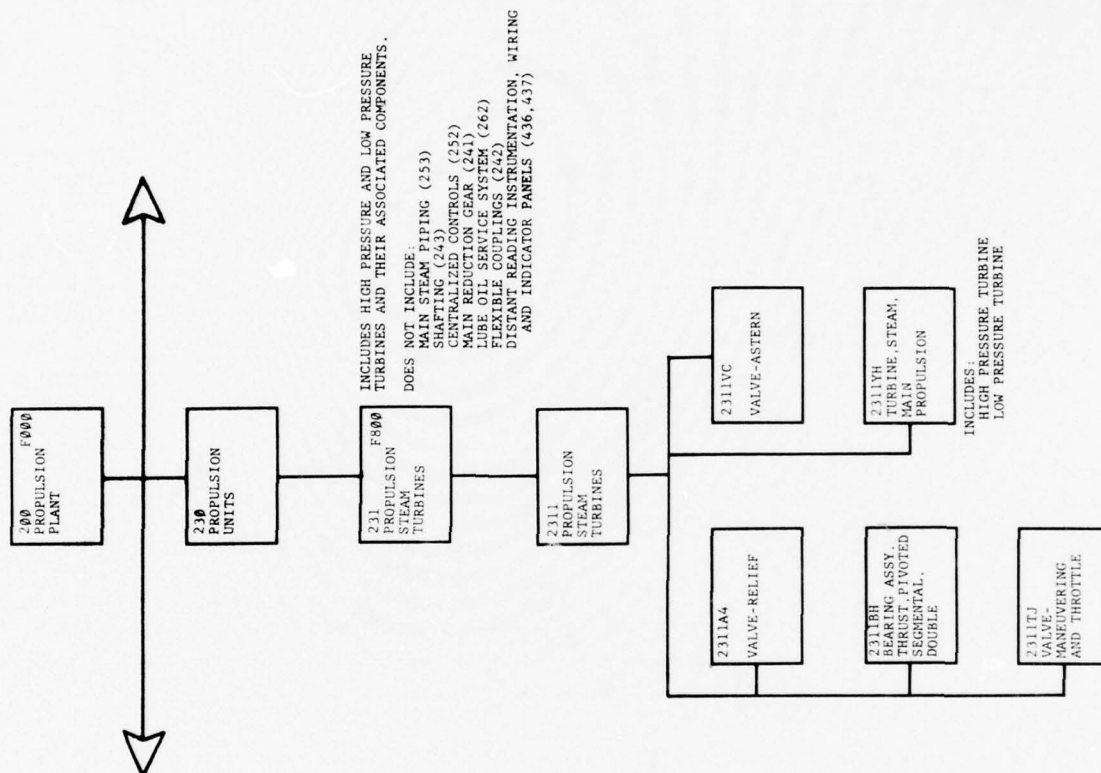


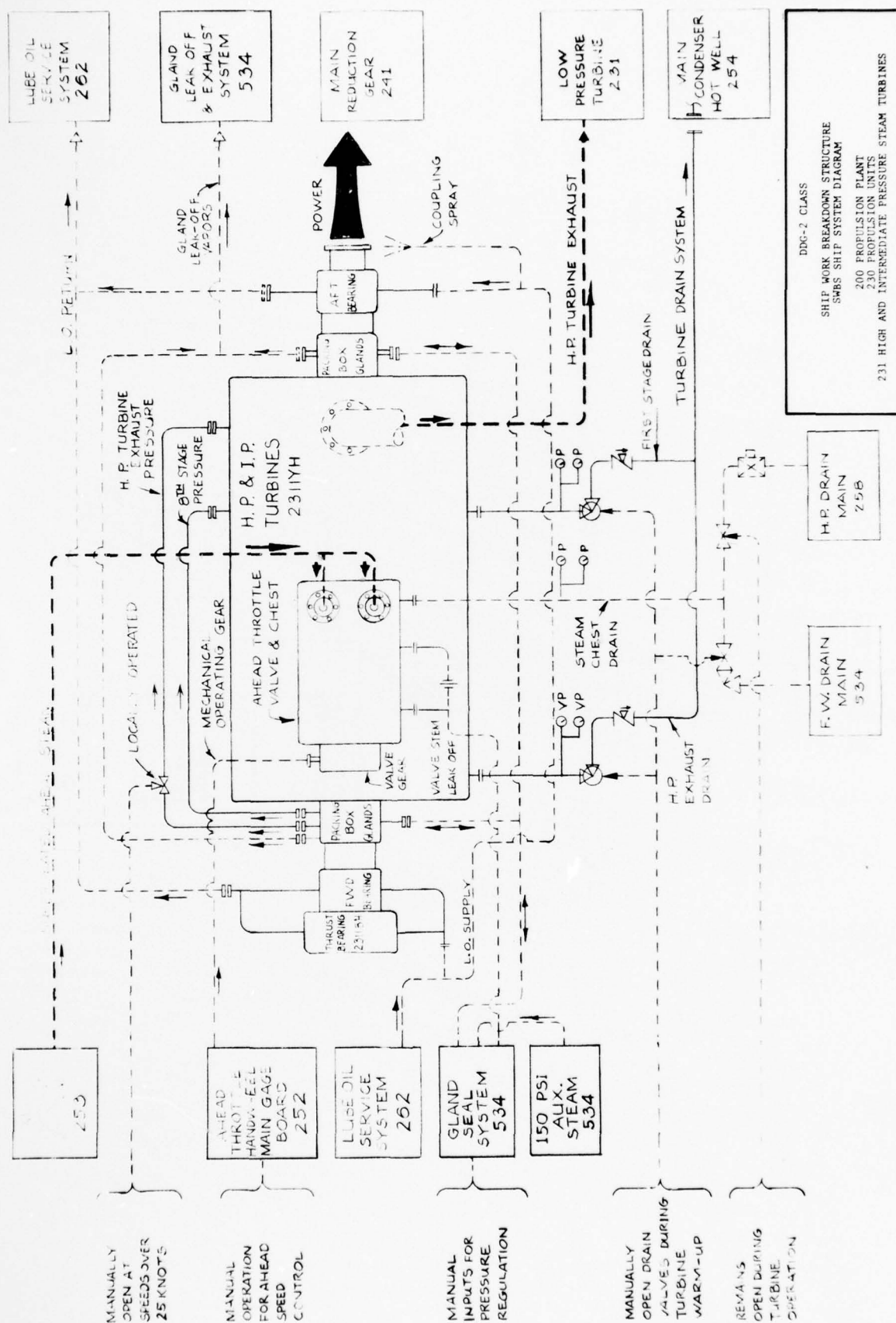




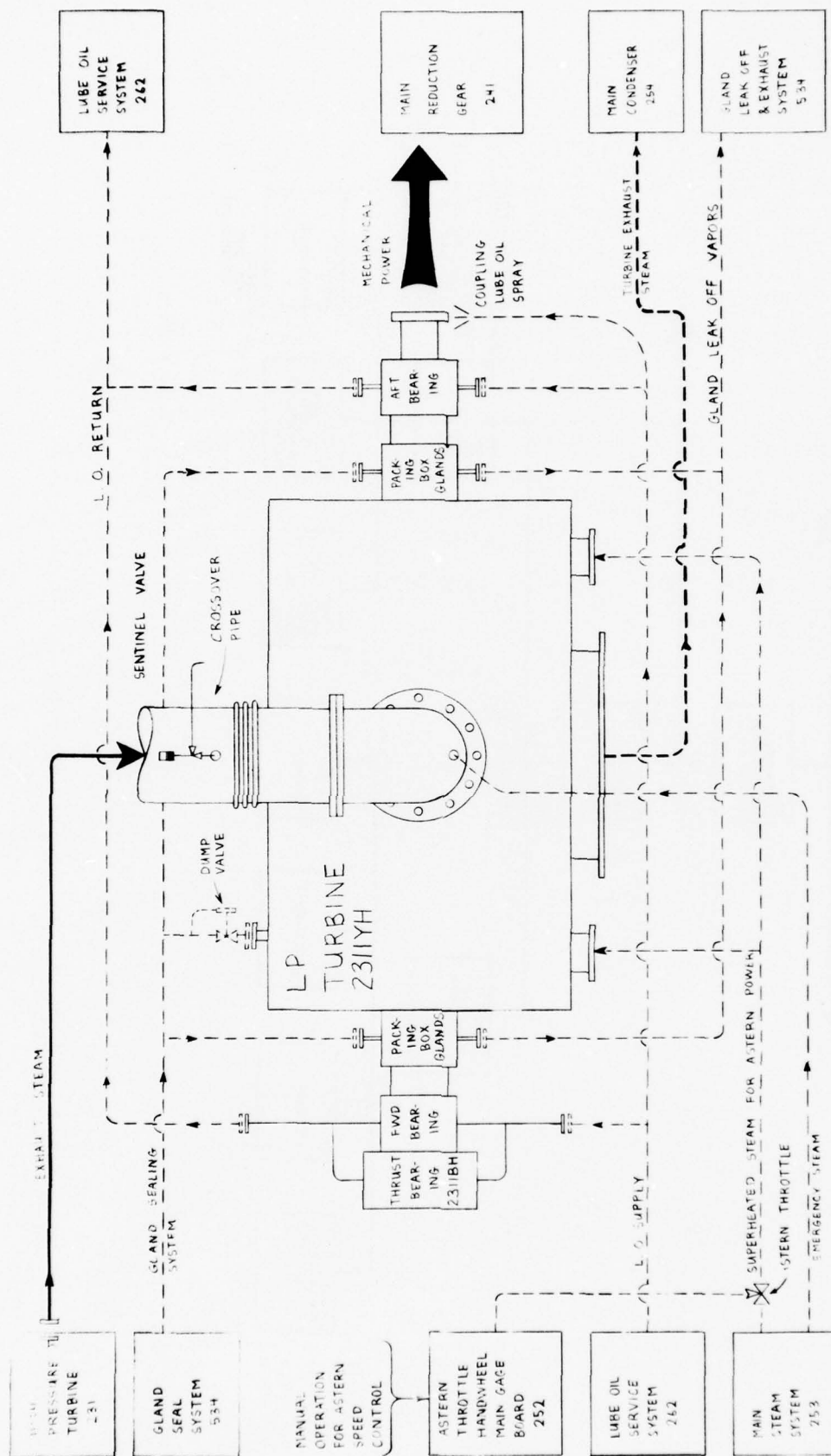








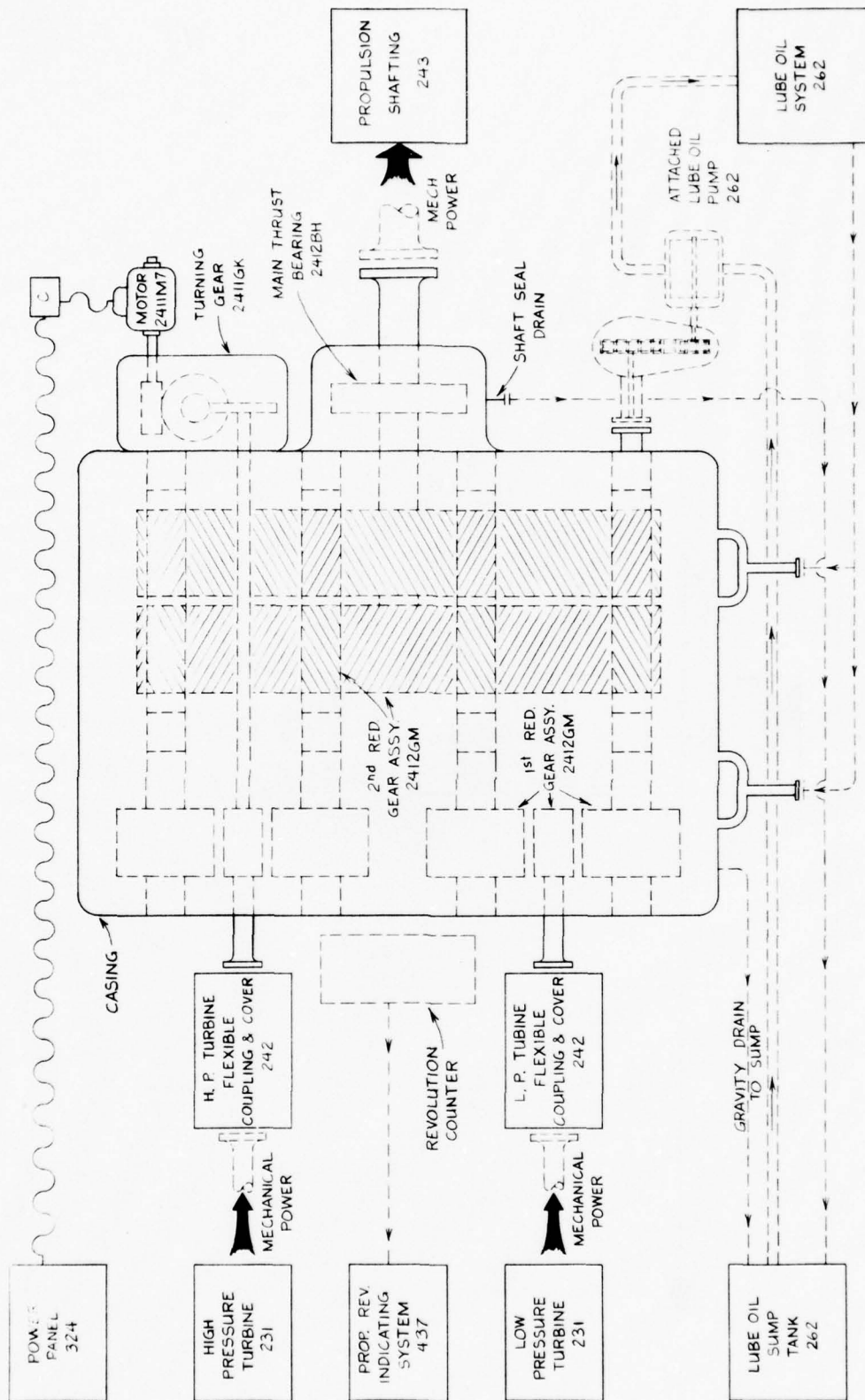
DDG-2 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SWS SHIP SYSTEM DIAGRAM  
200 PROPULSION PLANT  
230 PROPULSION UNITS  
231 HIGH AND INTERMEDIATE PRESSURE STEAM TURBINES



DDG-2 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SWBS SHIP SYSTEM DIAGRAM  
200 PROPULSION PLANT  
230 PROPULSION UNITS  
231 LOW PRESSURE STEAM TURBINE



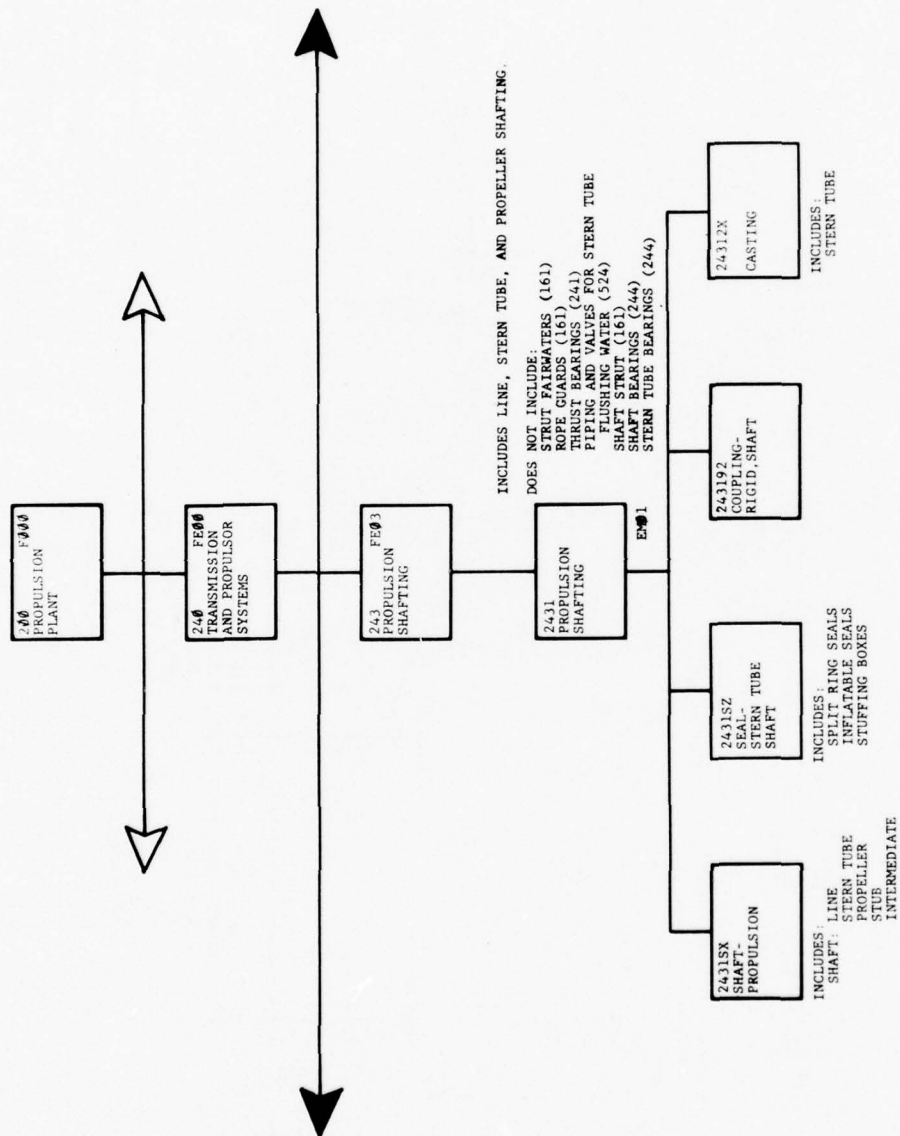


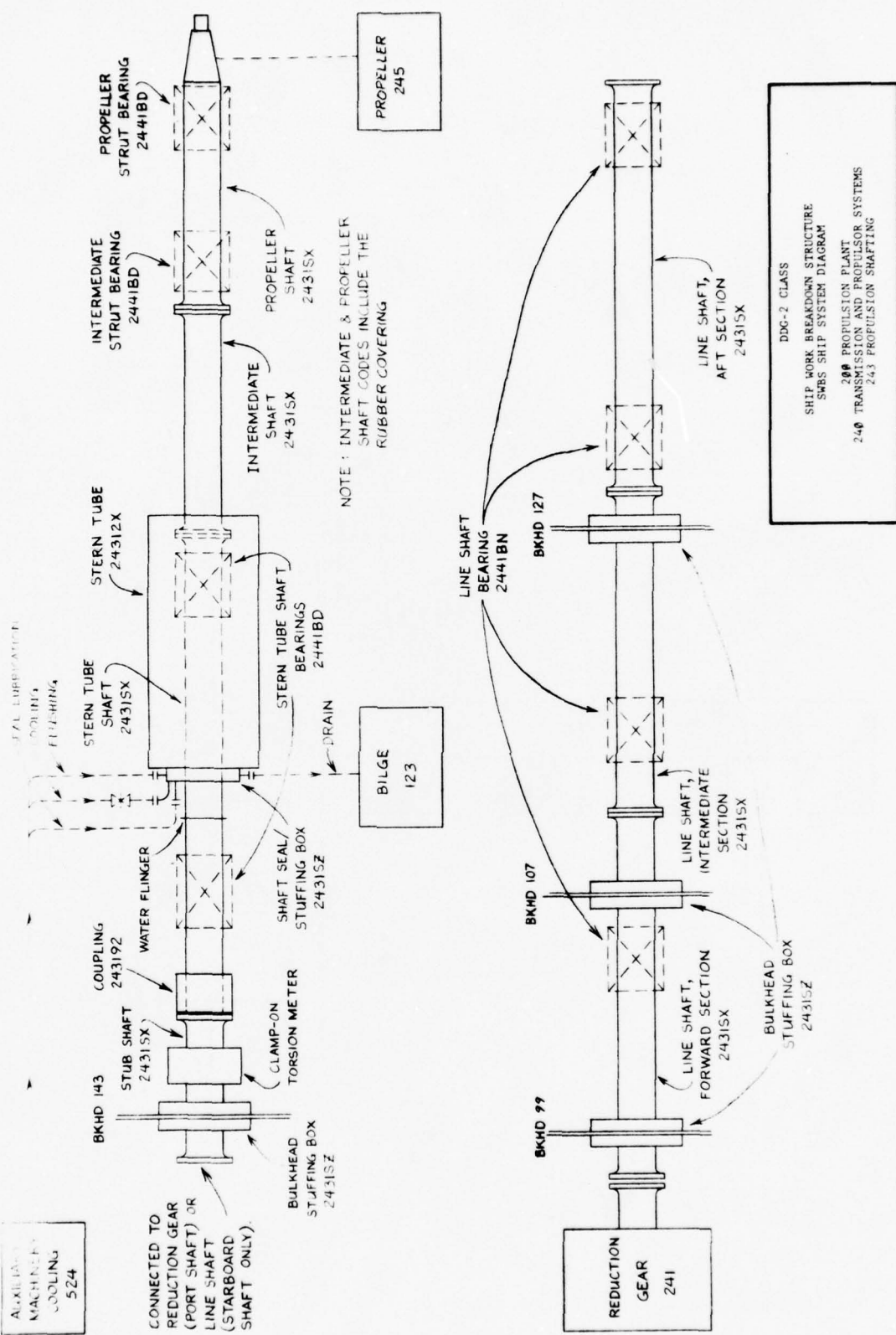


DDG-2 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SWBS SHIP SYSTEM DIAGRAM  
200 PROPULSION PLANT  
240 TRANSMISSION AND PROPULSION SYSTEMS  
241 PROPULSION REDUCTION GEARS

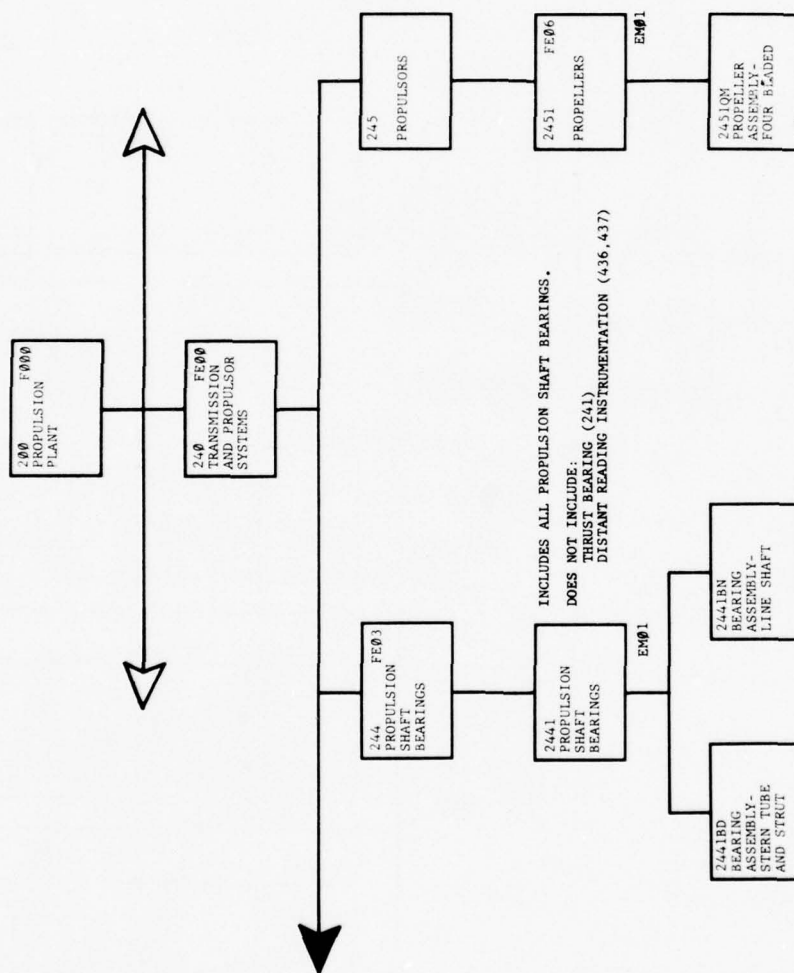
FOUNDATION  
182







DDG-2 CLASS  
 SHIP WORK BREAKDOWN STRUCTURE  
 SWBS SHIP SYSTEM DIAGRAM  
 200 PROPULSION PLANT  
 240 TRANSMISSION AND PROPULSION SYSTEMS  
 243 PROPULSION SHAFTING





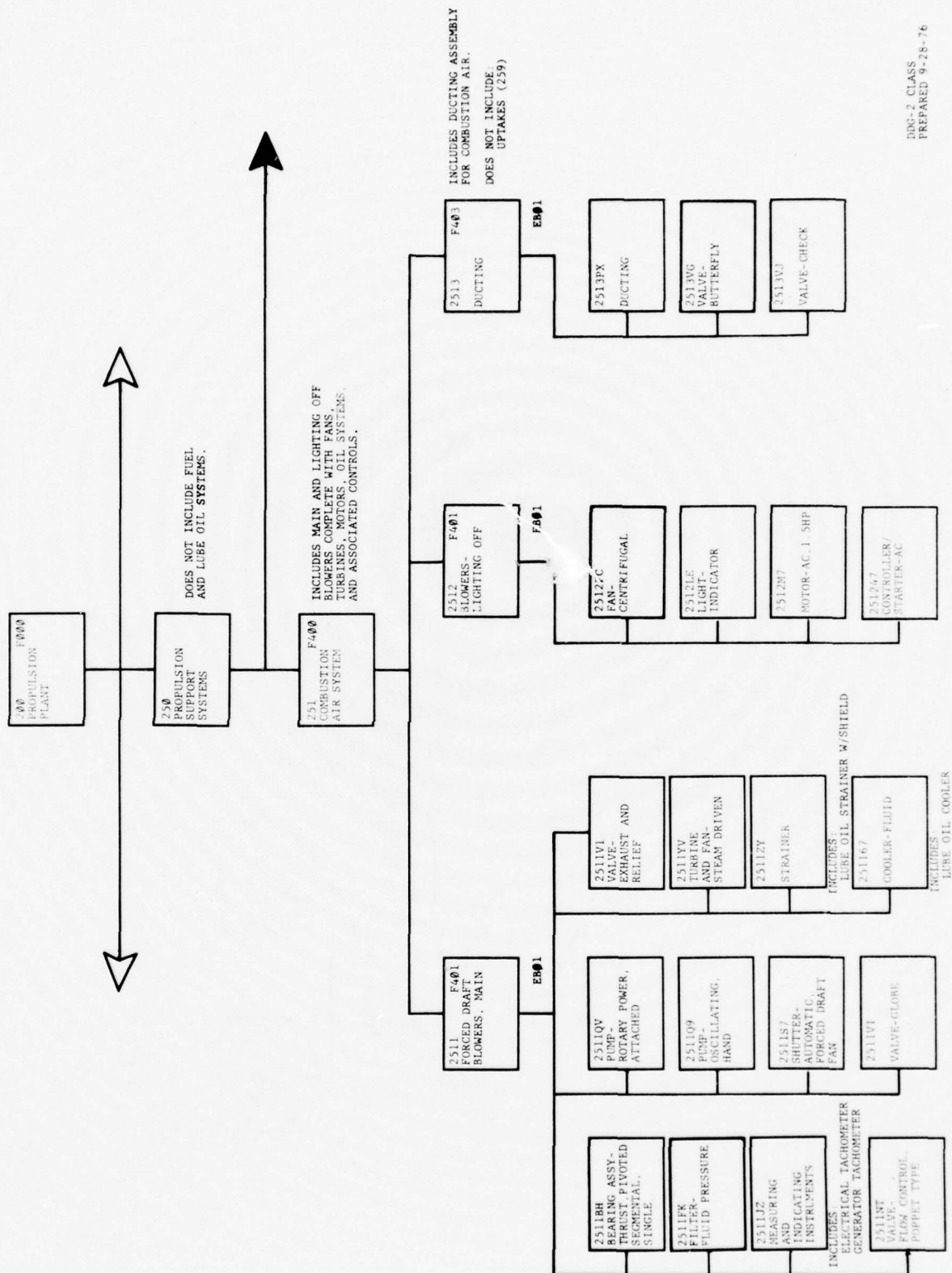
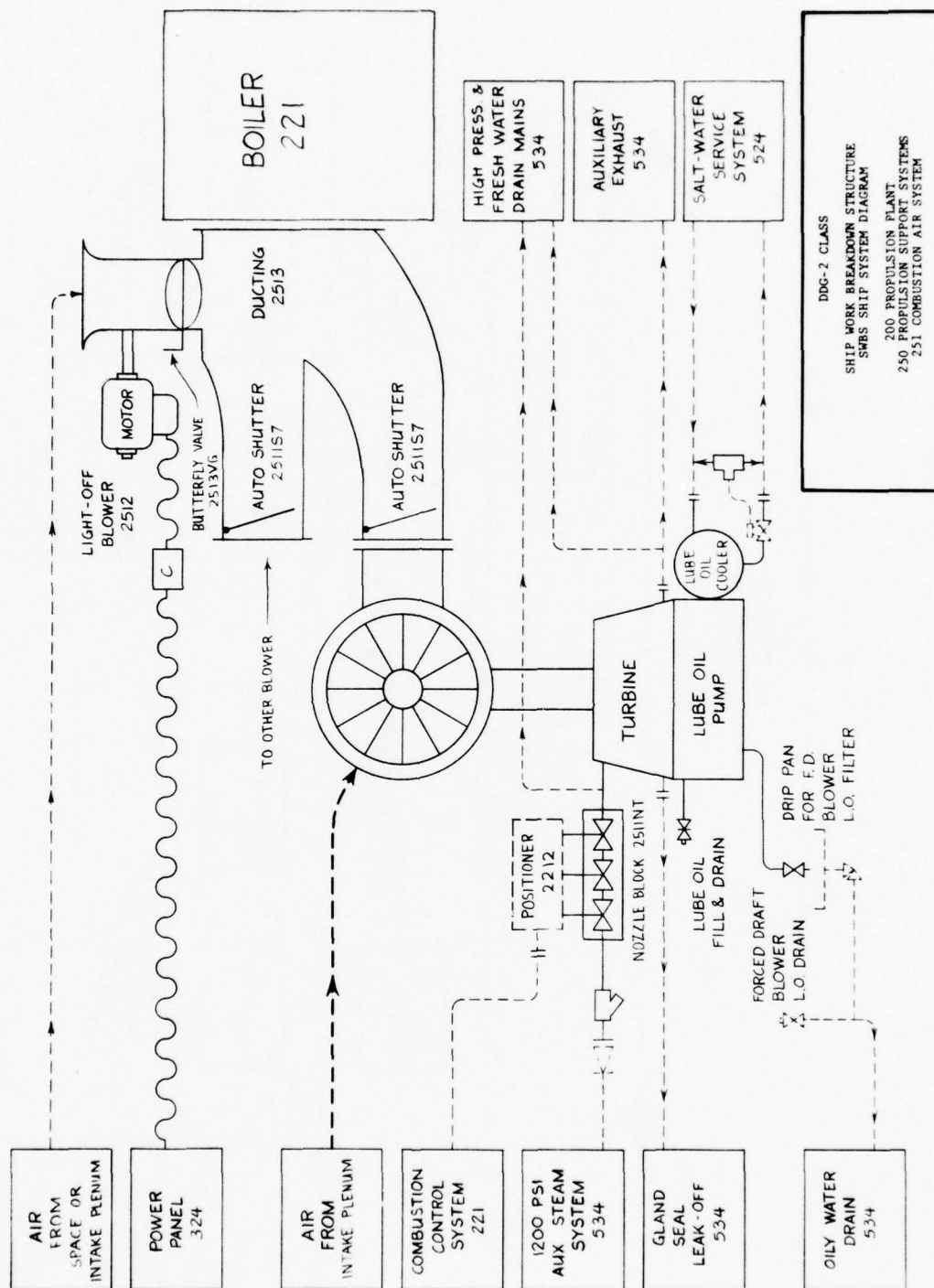
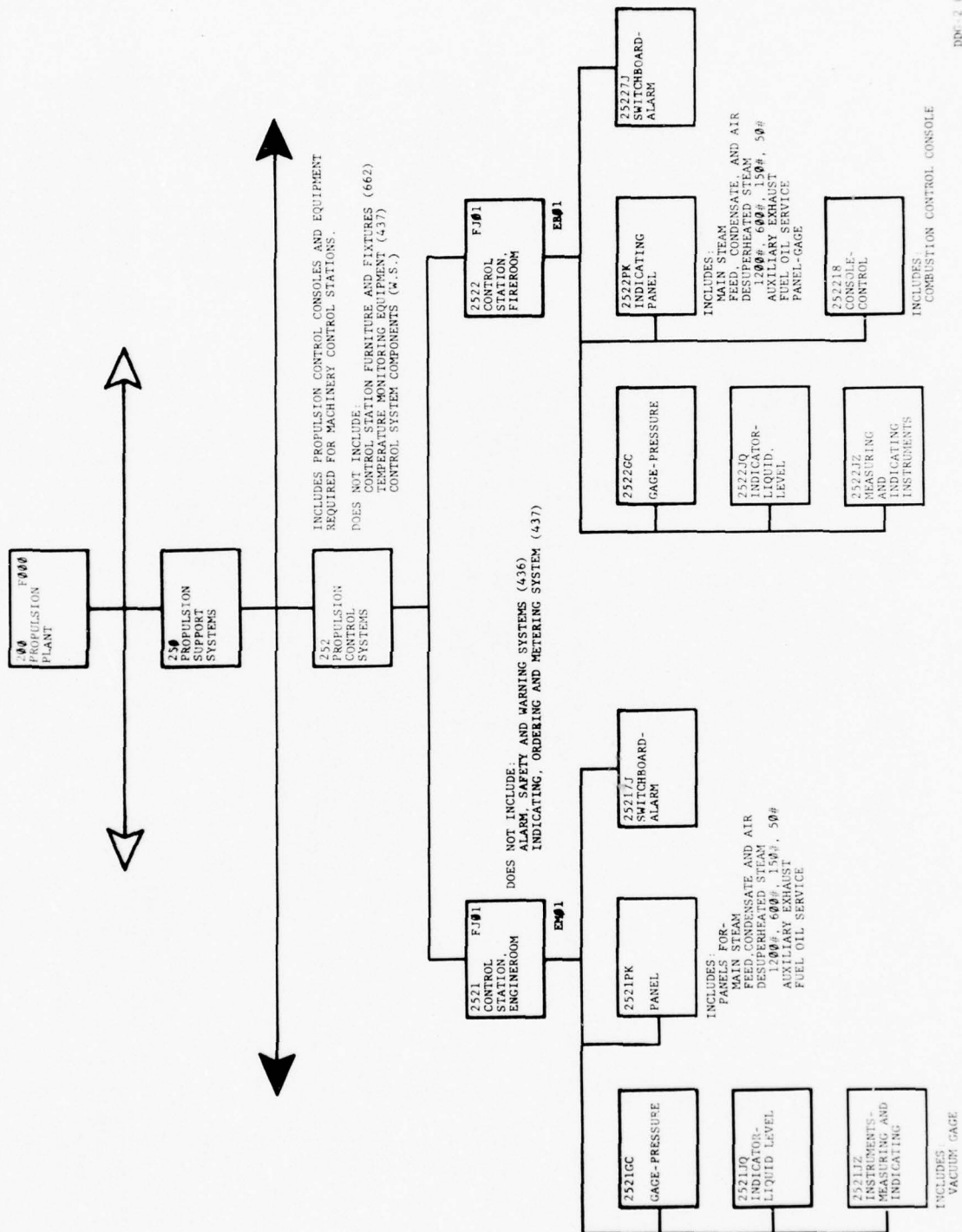
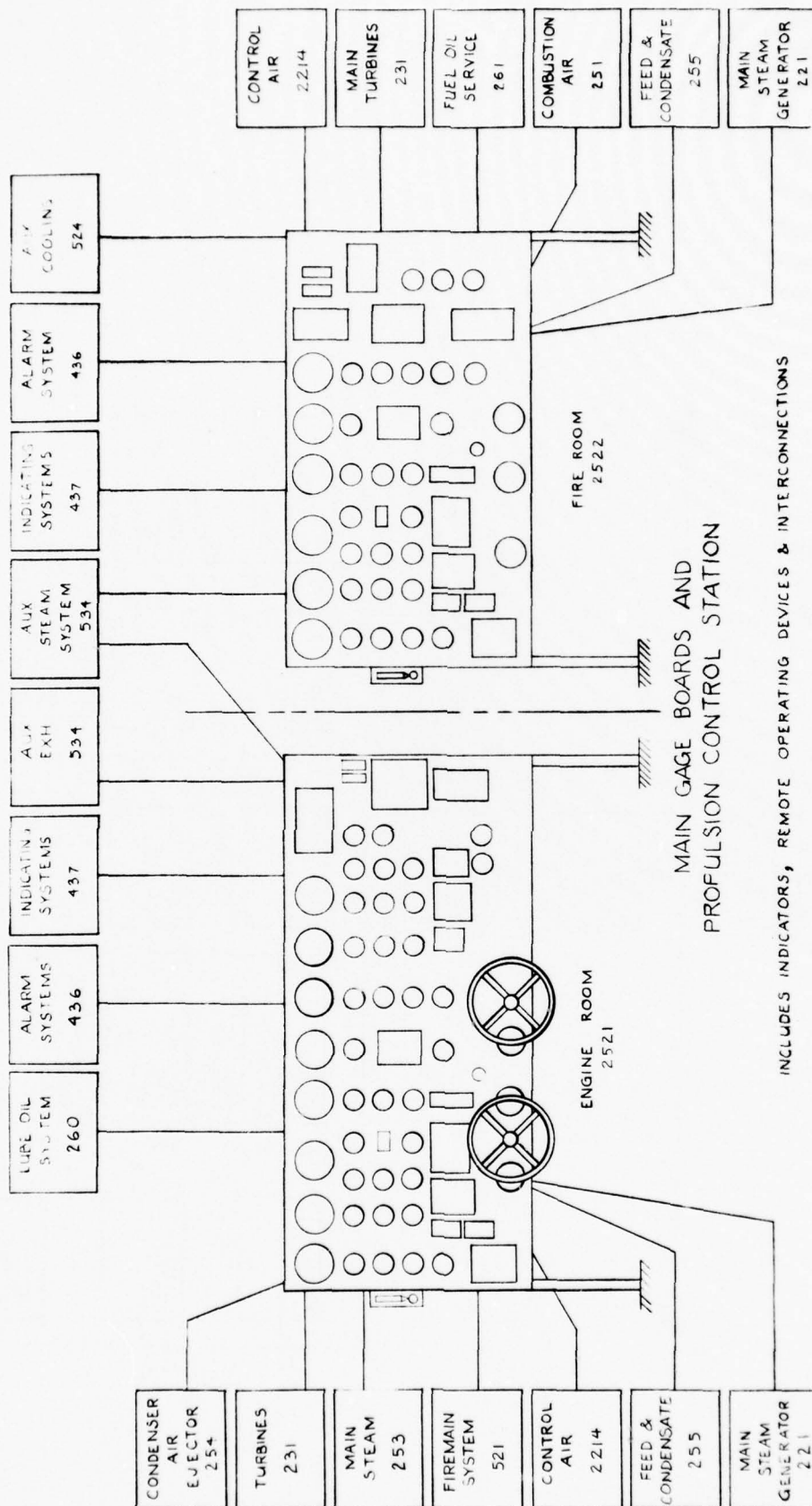


FIG-2 CLASS  
PREPARED 9-28-76



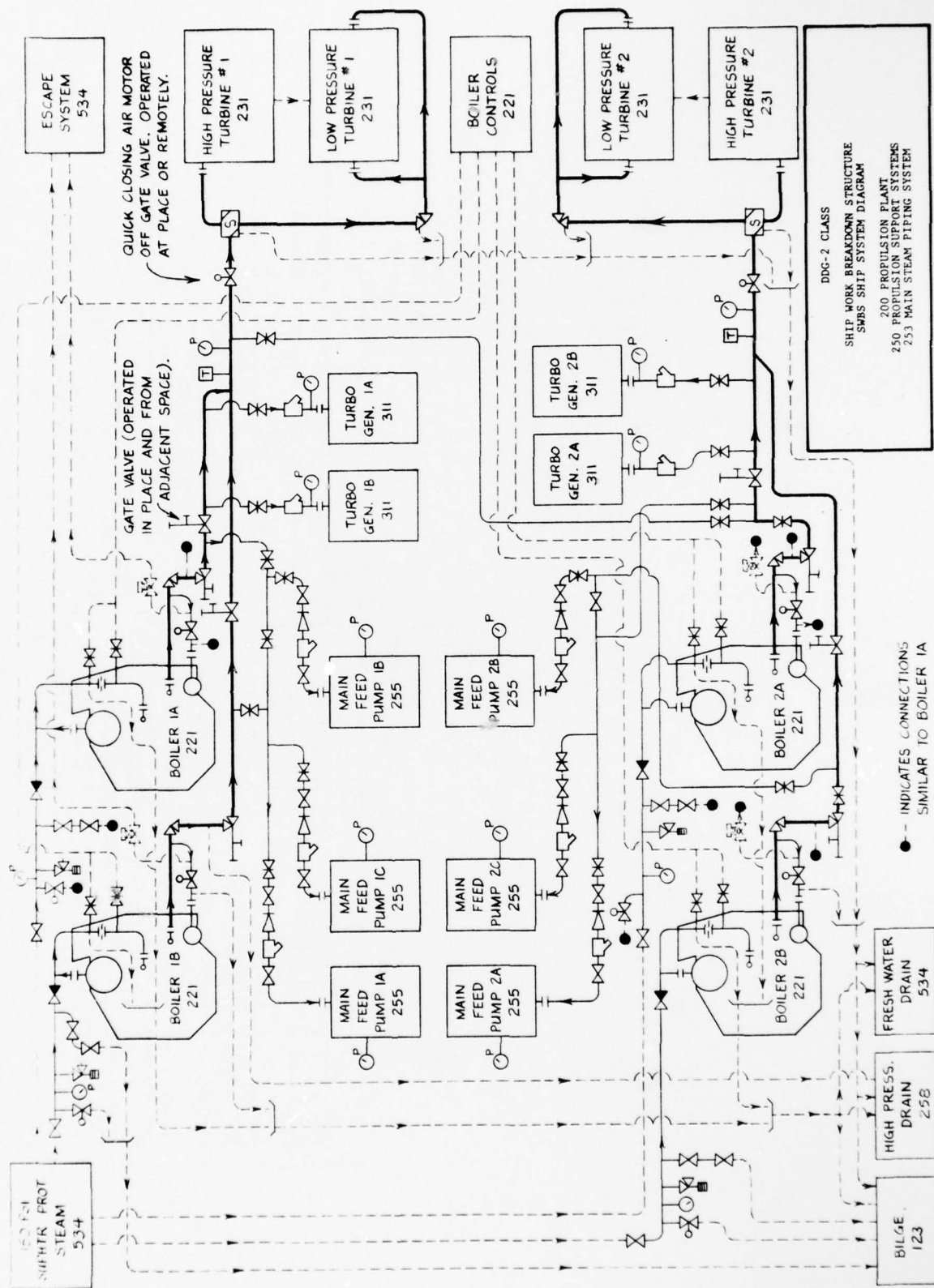


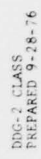


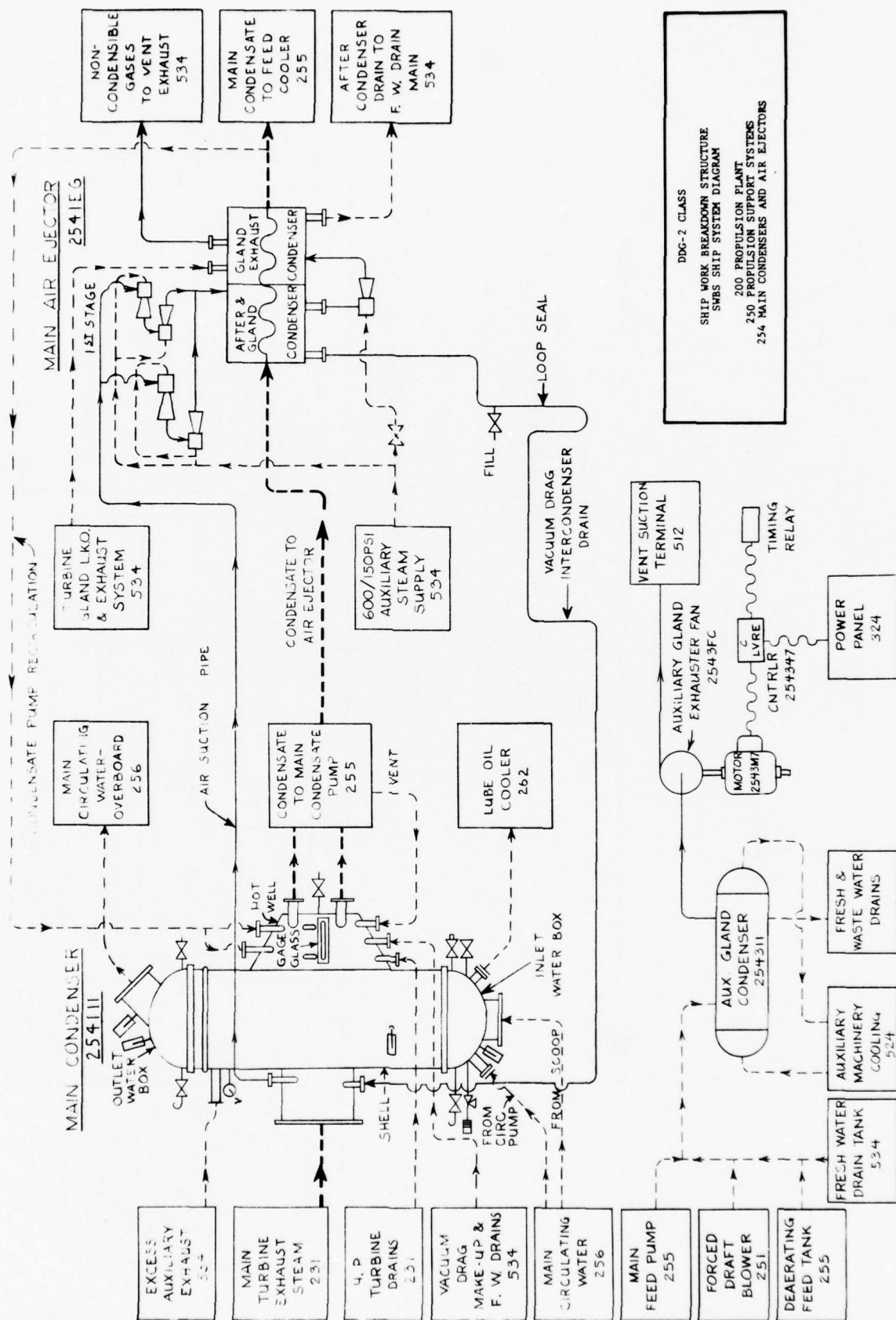
DDG-2 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SWBS SHIP SYSTEM DIAGRAM  
200 PROFULSION PLANT  
250 PROFULSION SUPPORT SYSTEMS  
252 PROFULSION CONTROL SYSTEM









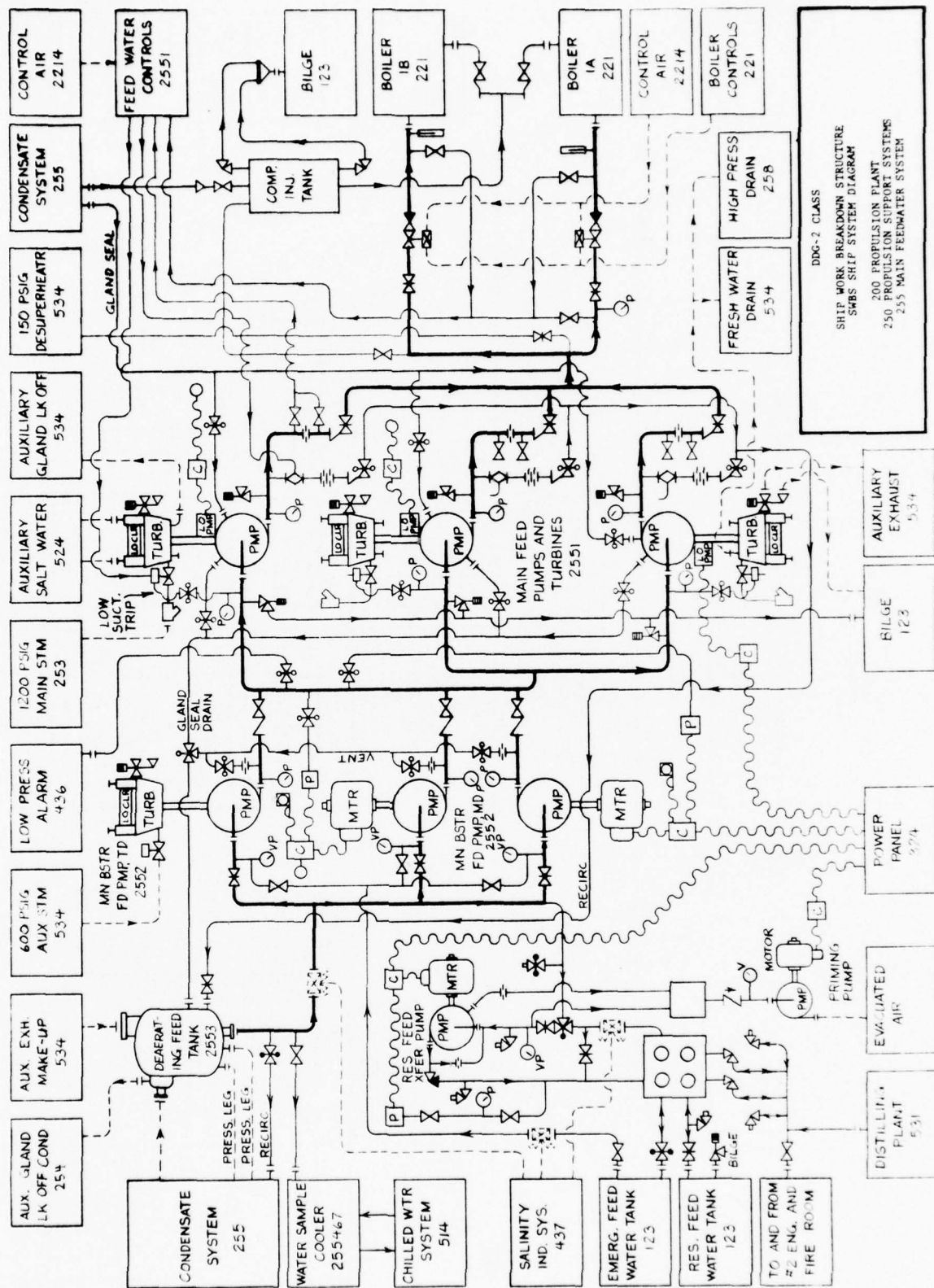




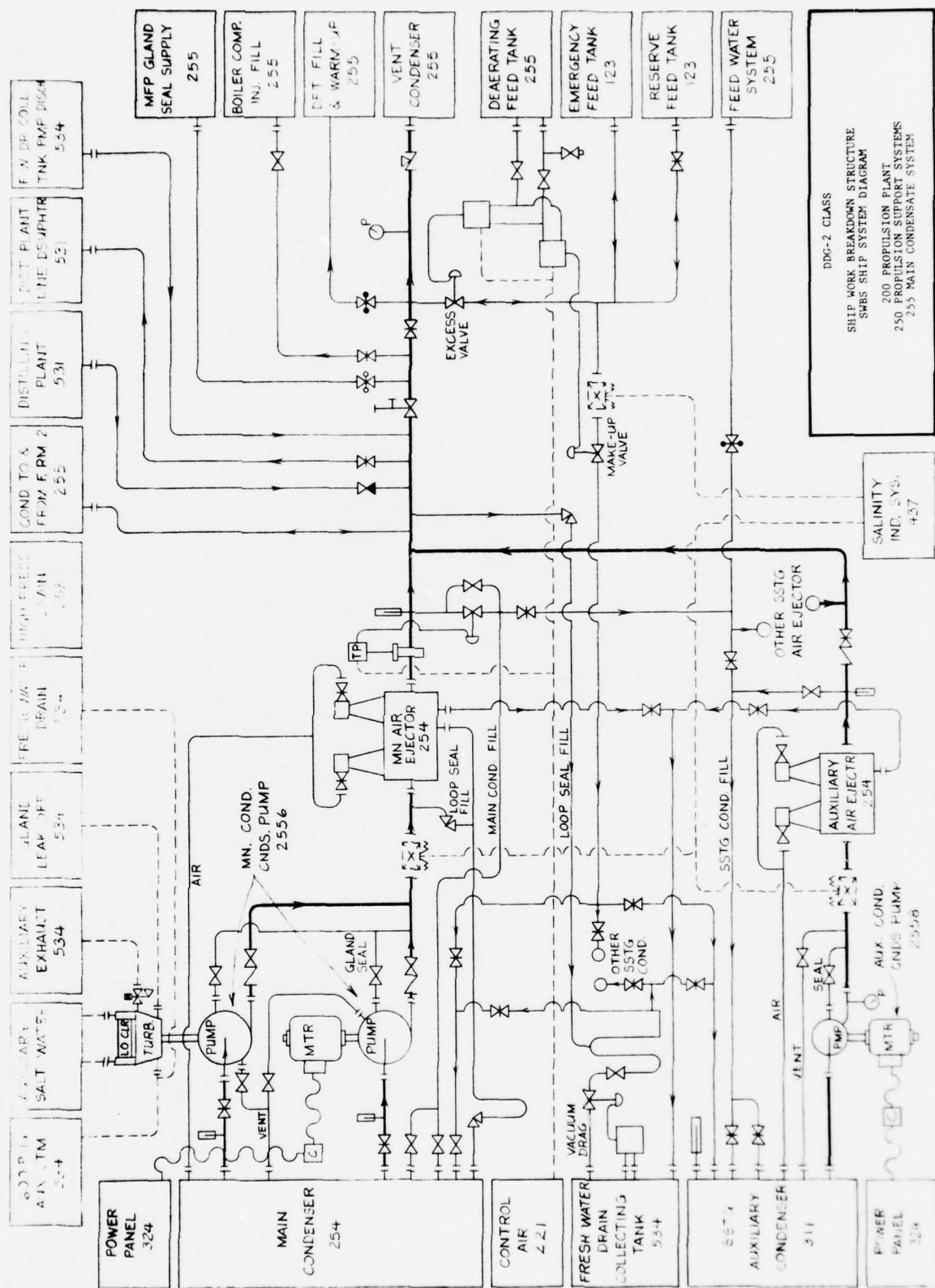




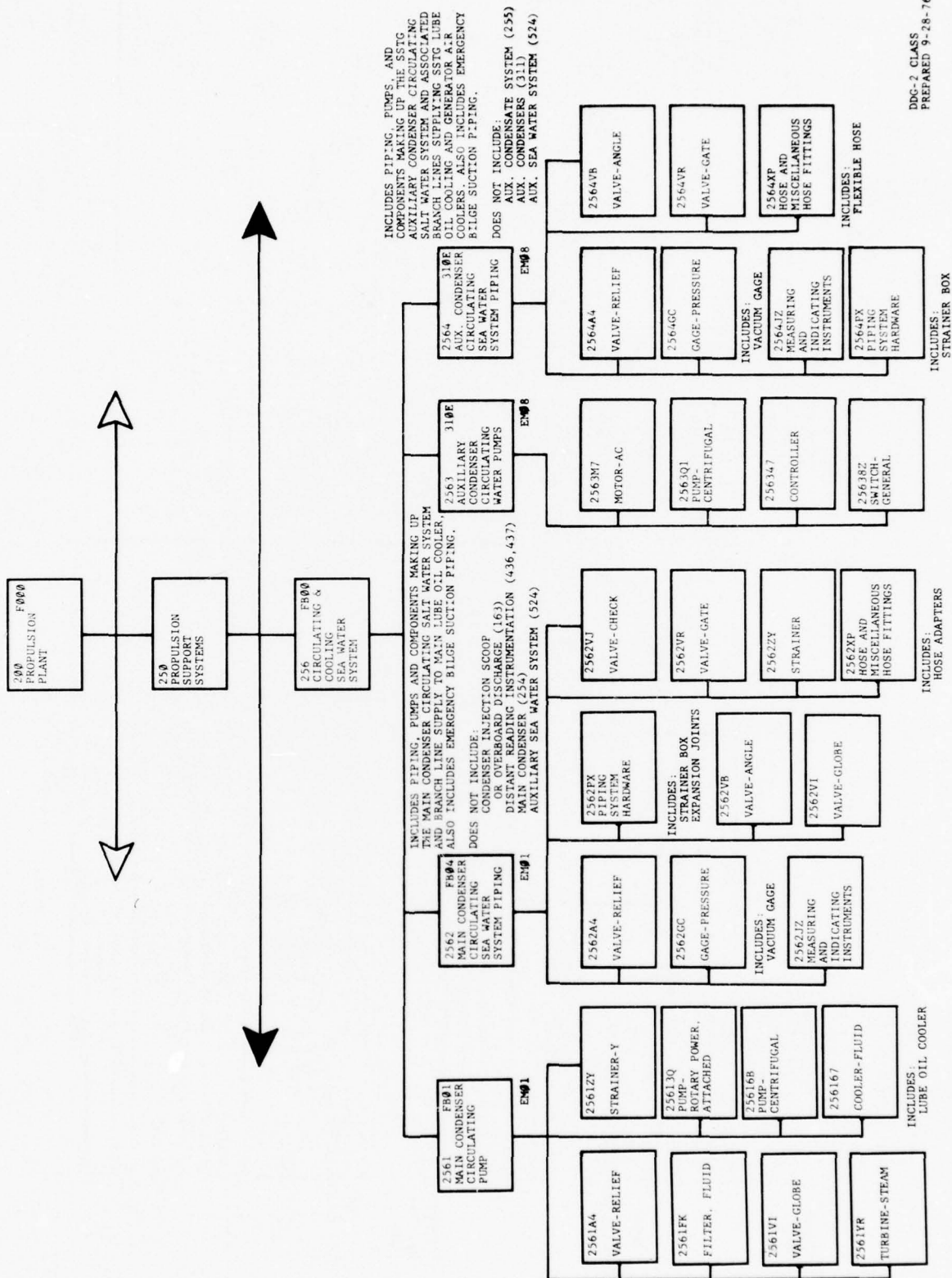




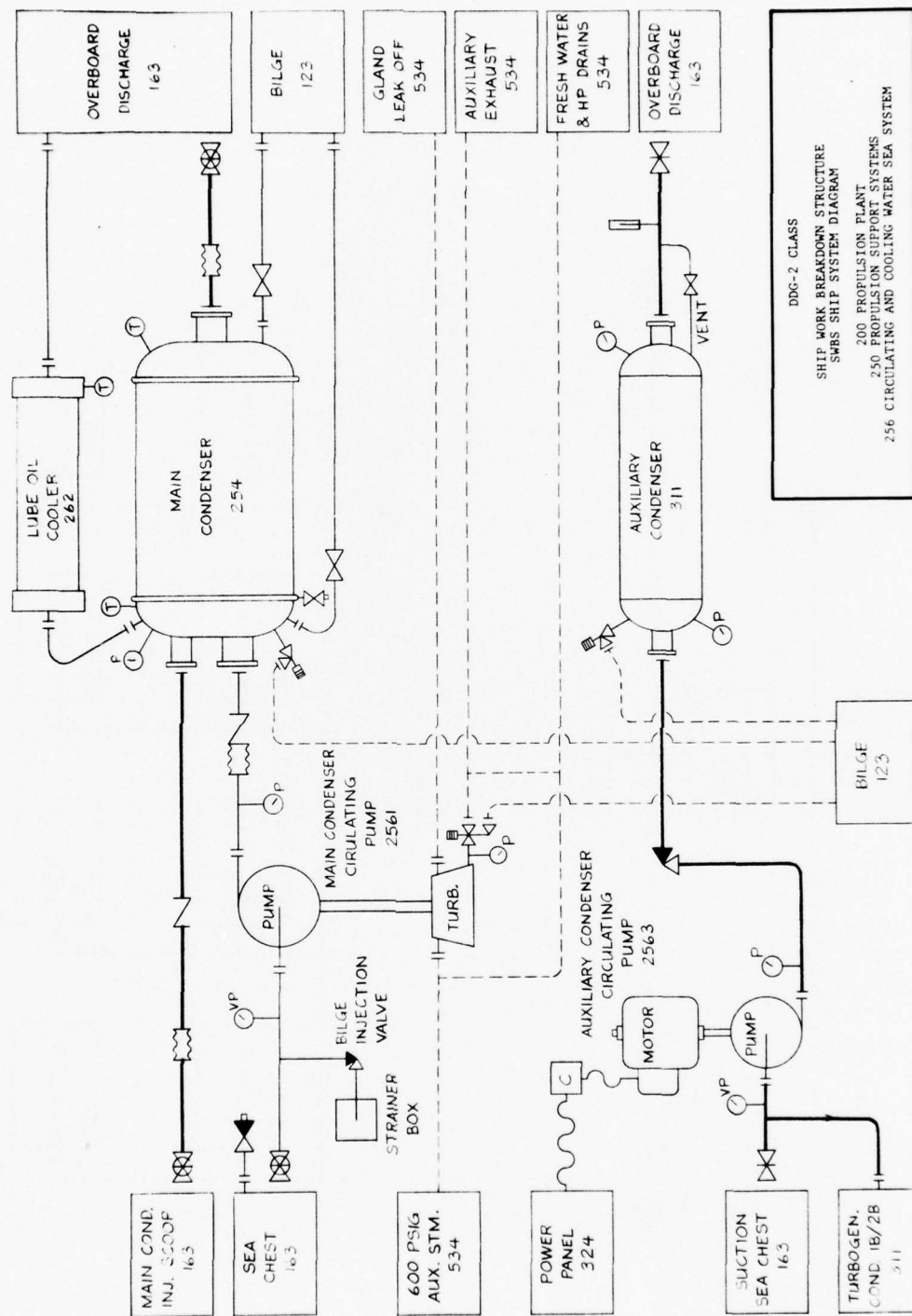








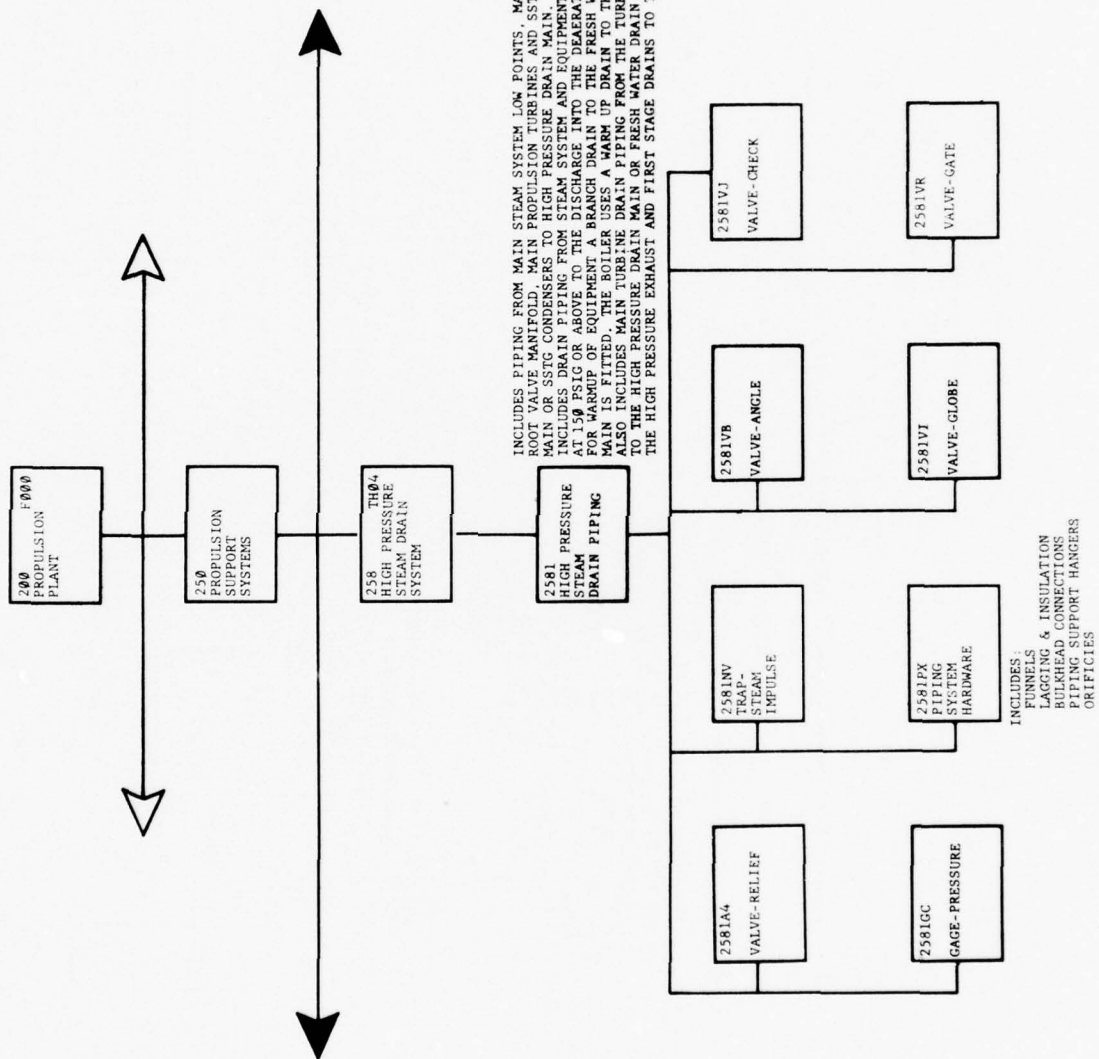


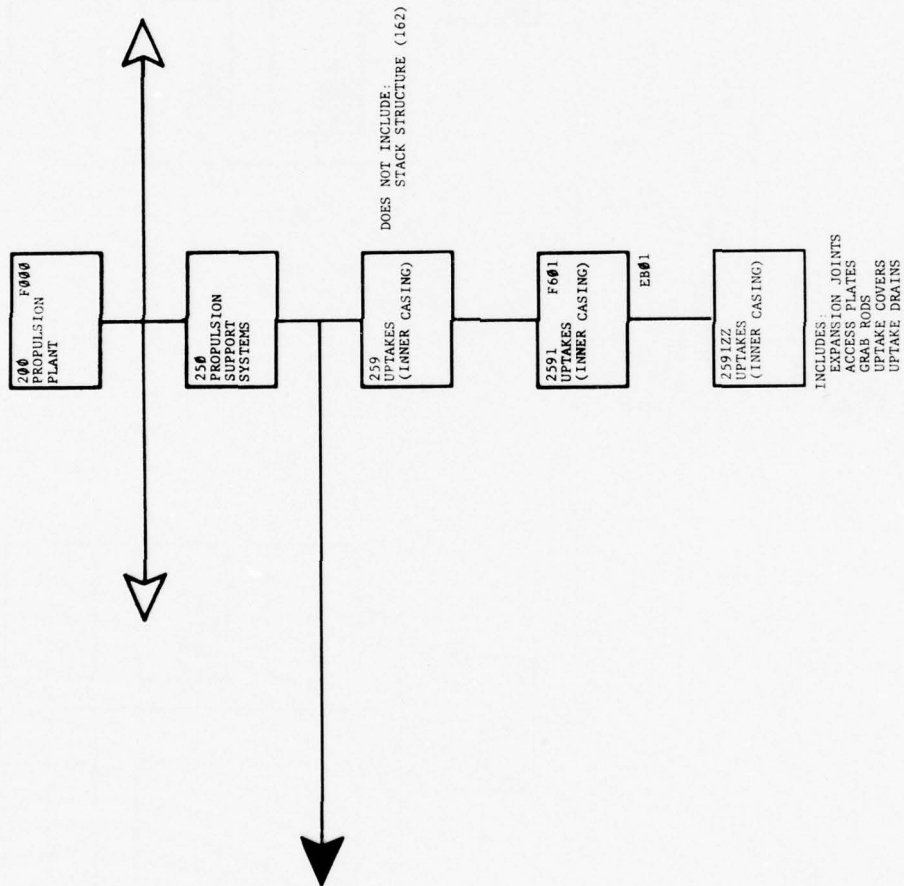


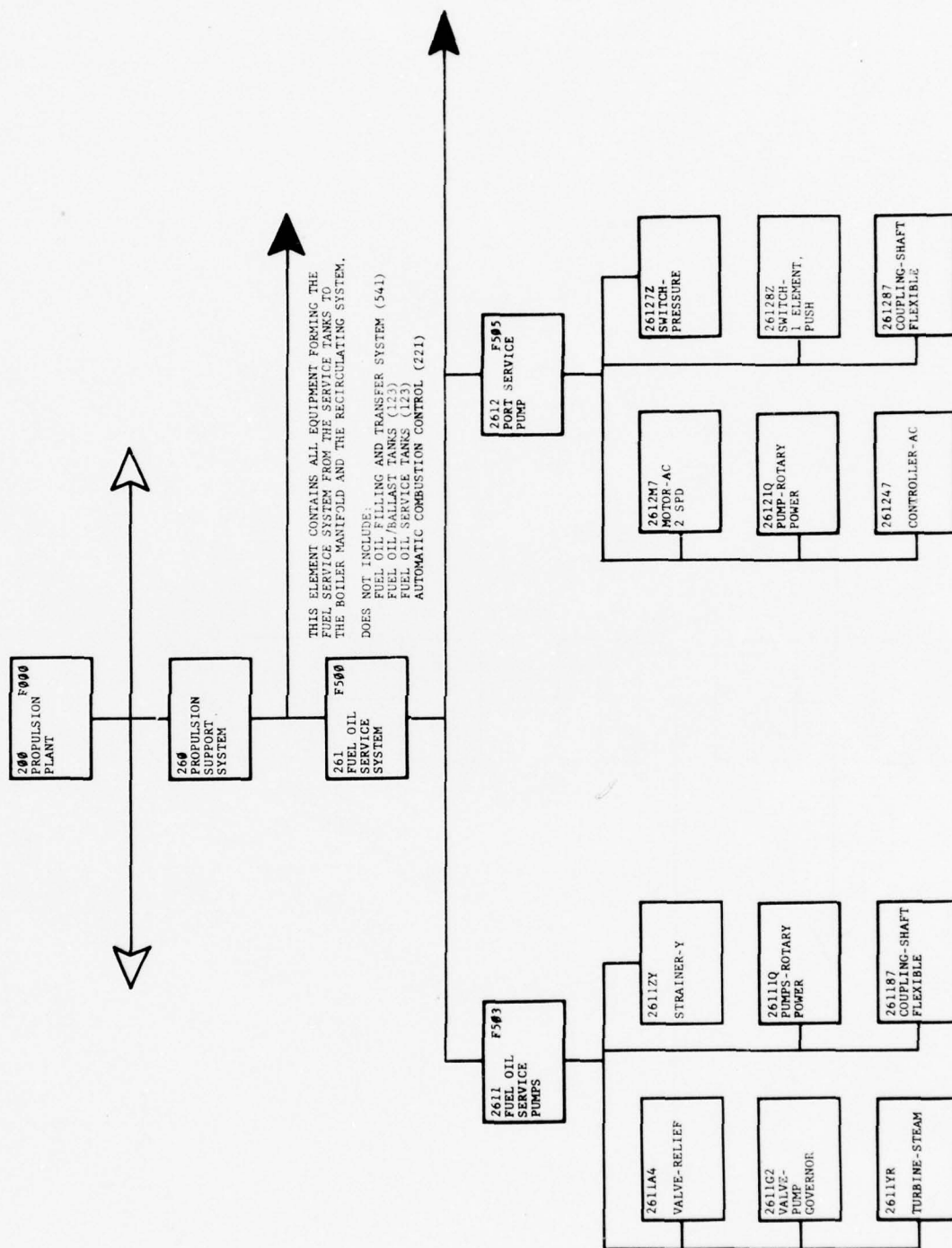
DDG-2 CLASS

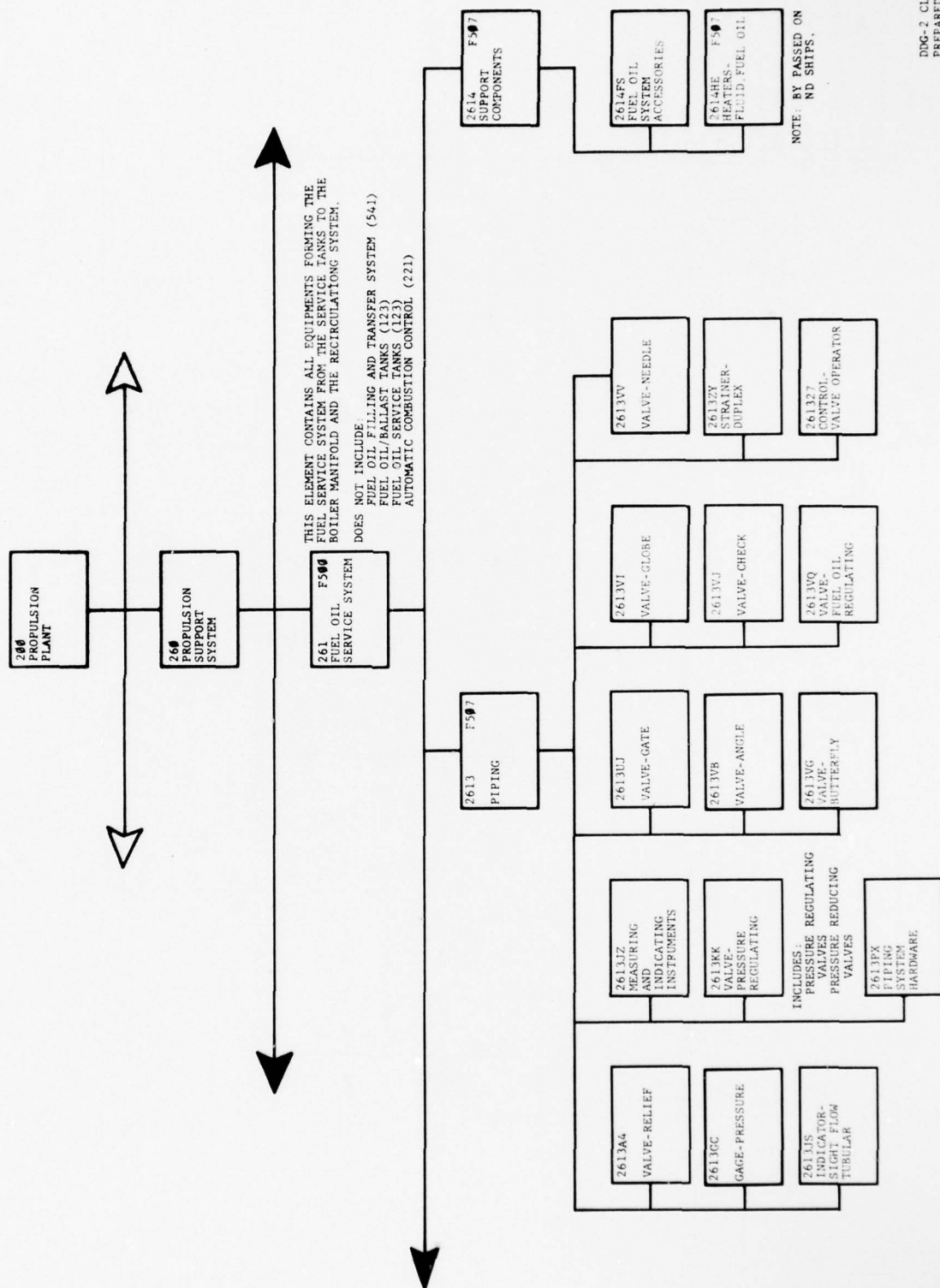
SHIP WORK BREAKDOWN STRUCTURE  
SWBS SHIP SYSTEM DIAGRAM

200 PROPULSION PLANT  
250 PROPULSION SUPPORT SYSTEMS  
256 CIRCULATING AND COOLING WATER SEA SYSTEM

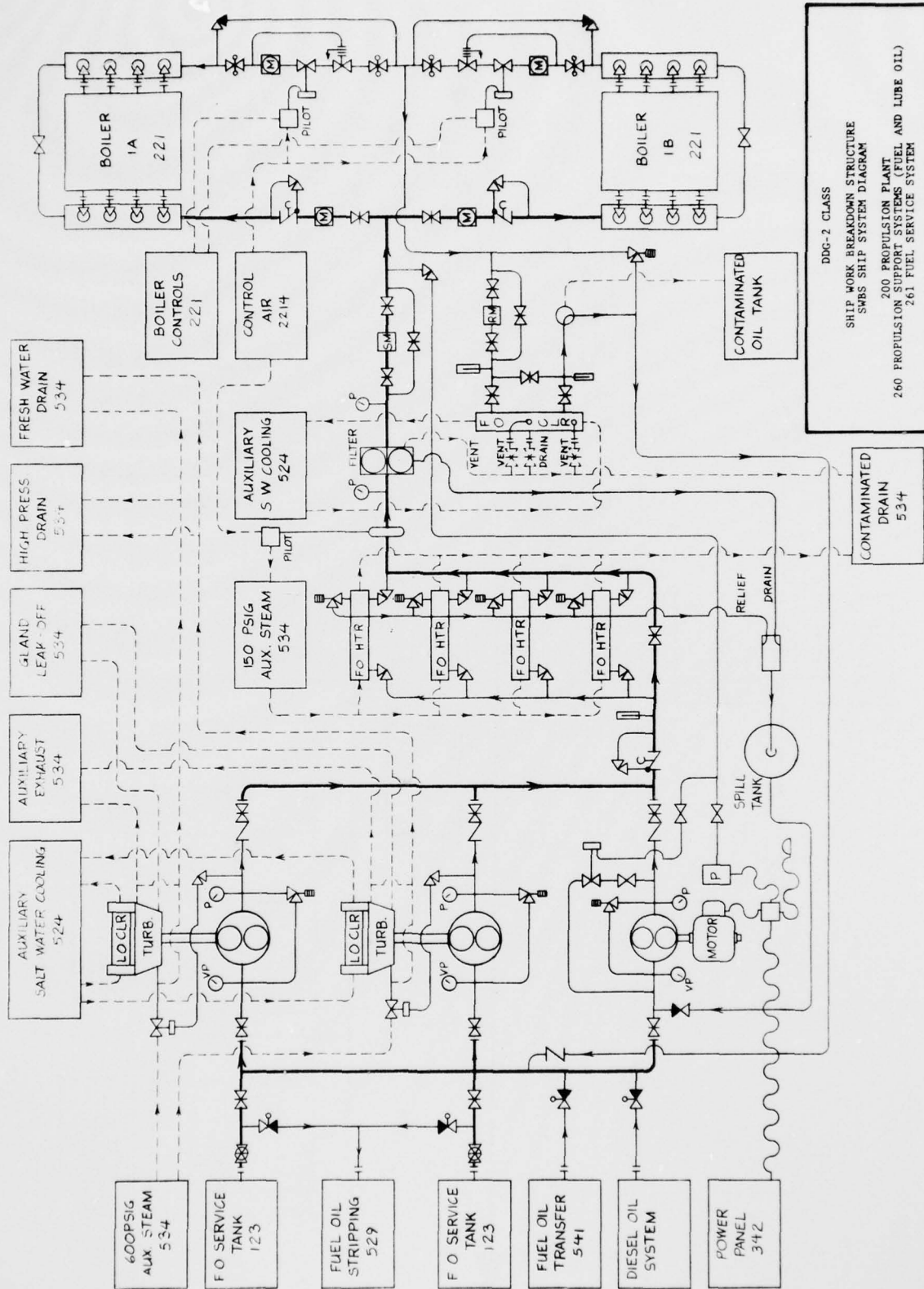




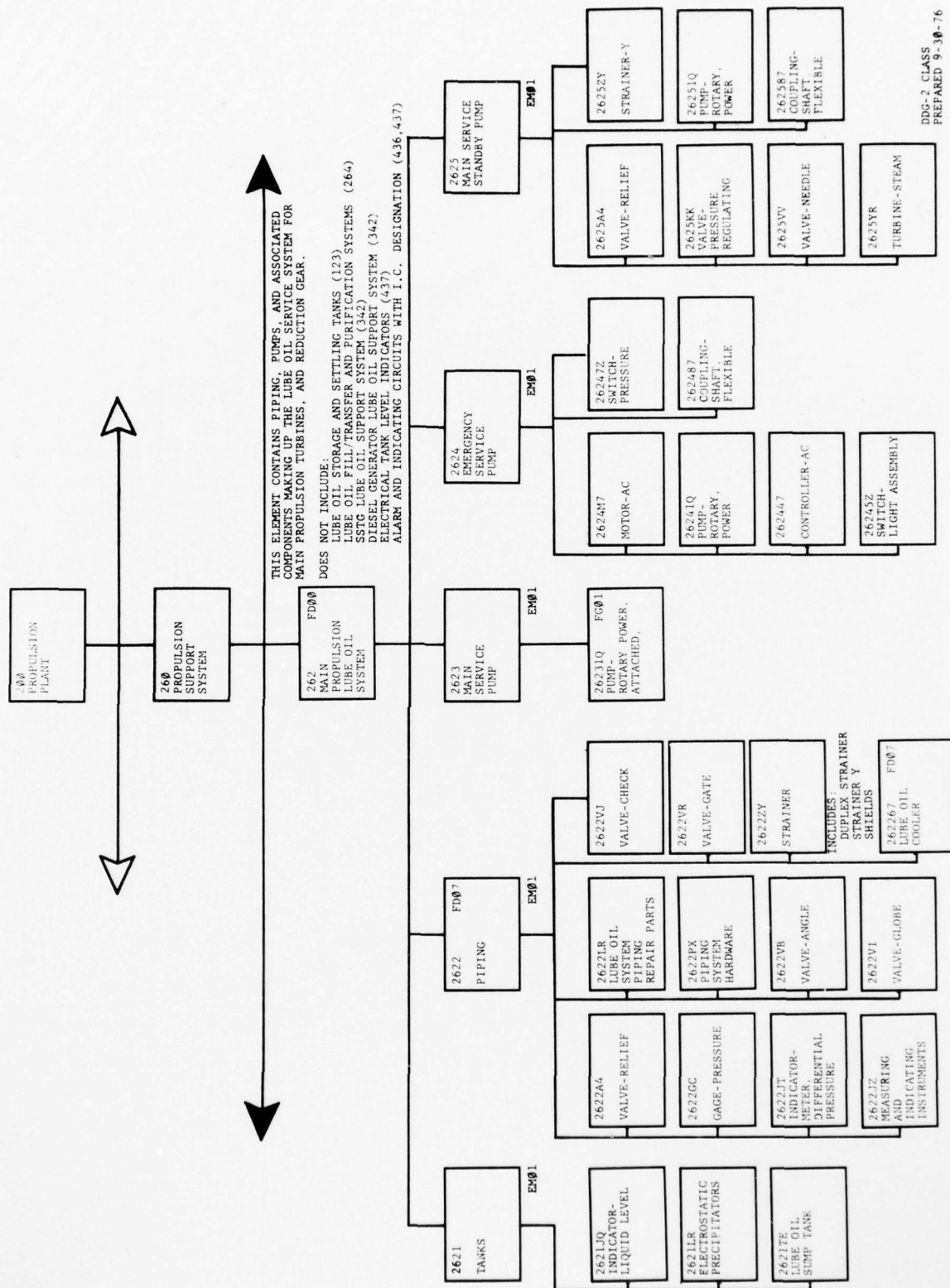








DDG-2 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SWBS SHIP SYSTEM DIAGRAM  
200 PROPULSION PLANT  
260 PROPULSION SUPPORT SYSTEMS (FUEL AND LUBE OIL)  
261 FUEL SERVICE SYSTEM

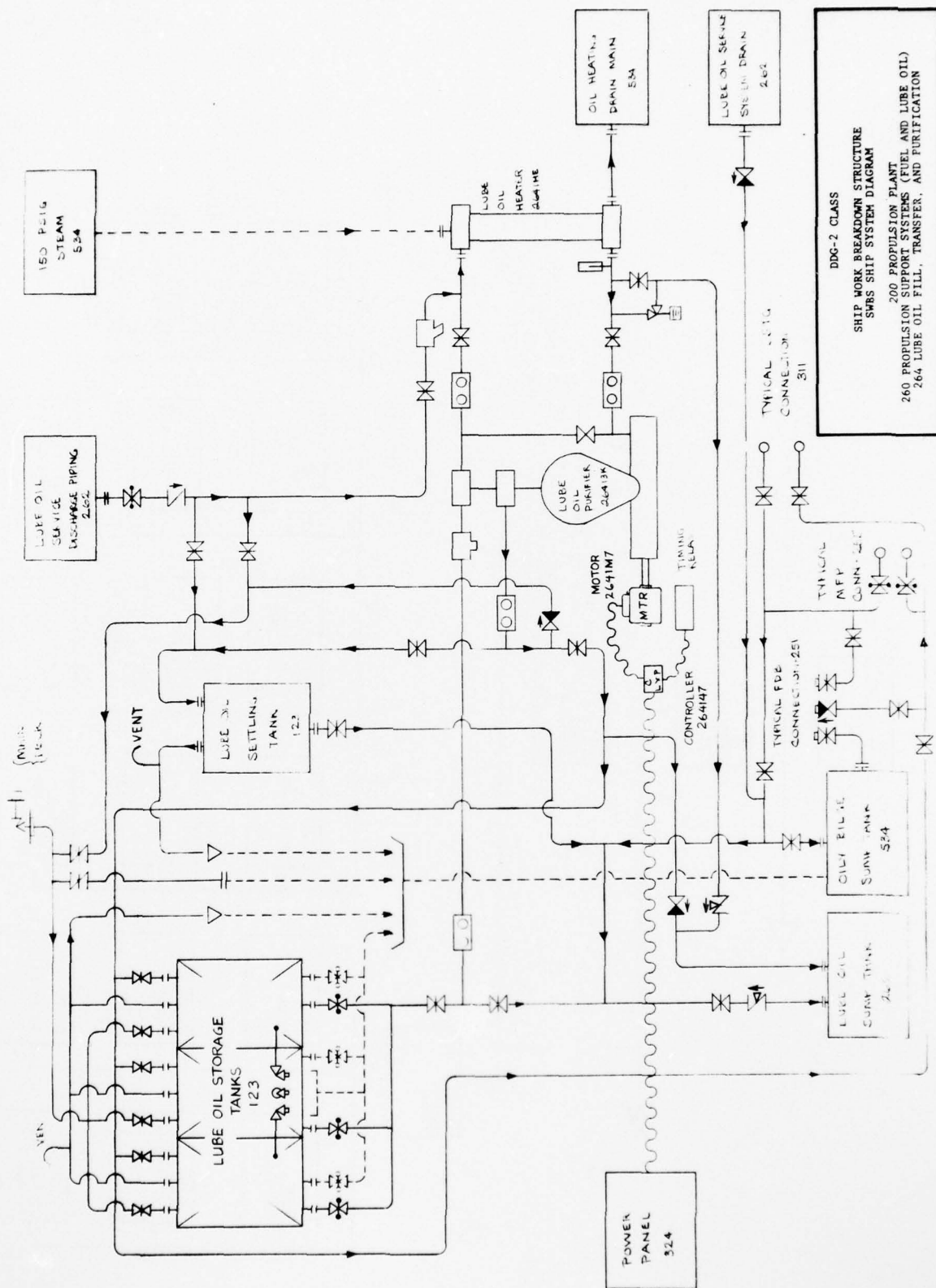


DDG-2 CLASS  
 PREPARED 9-30-76



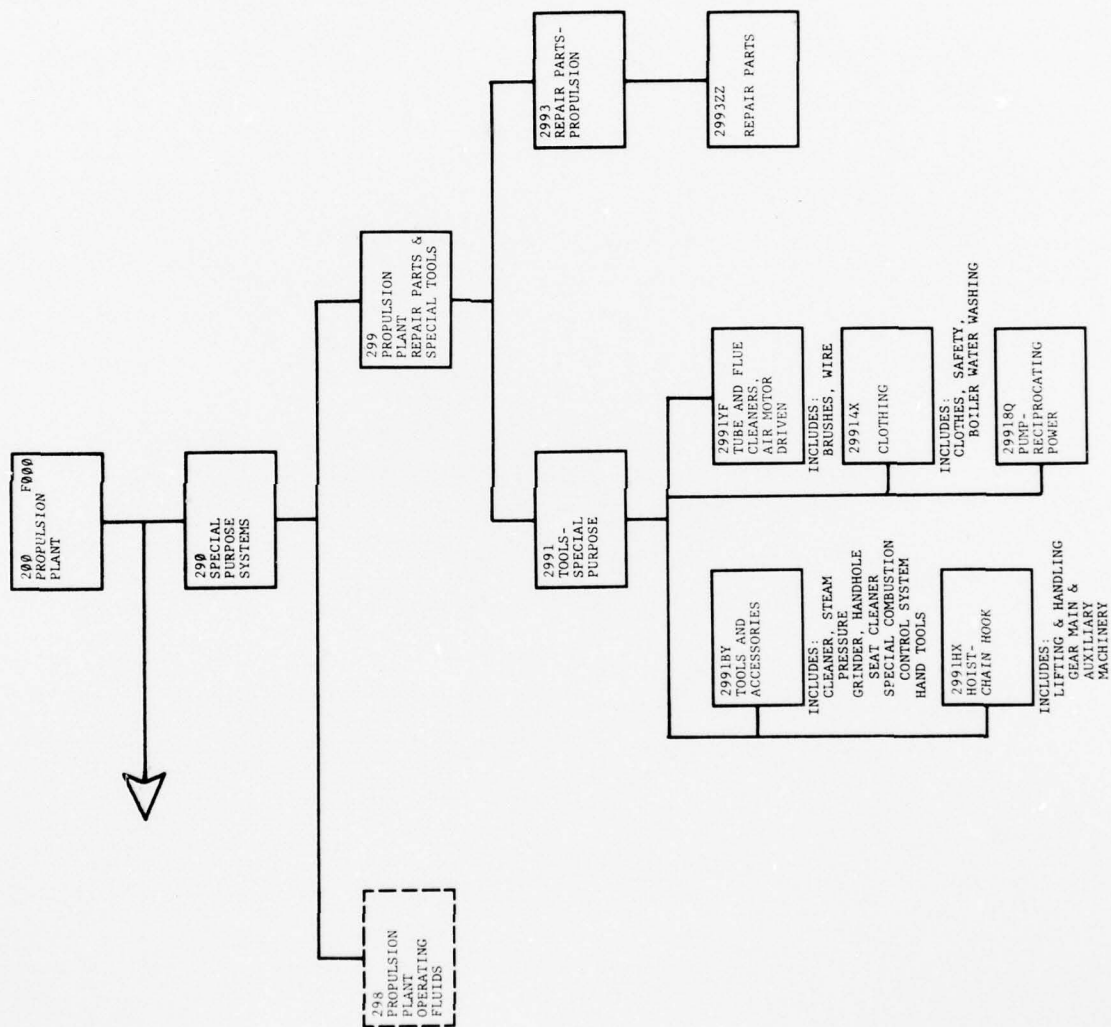


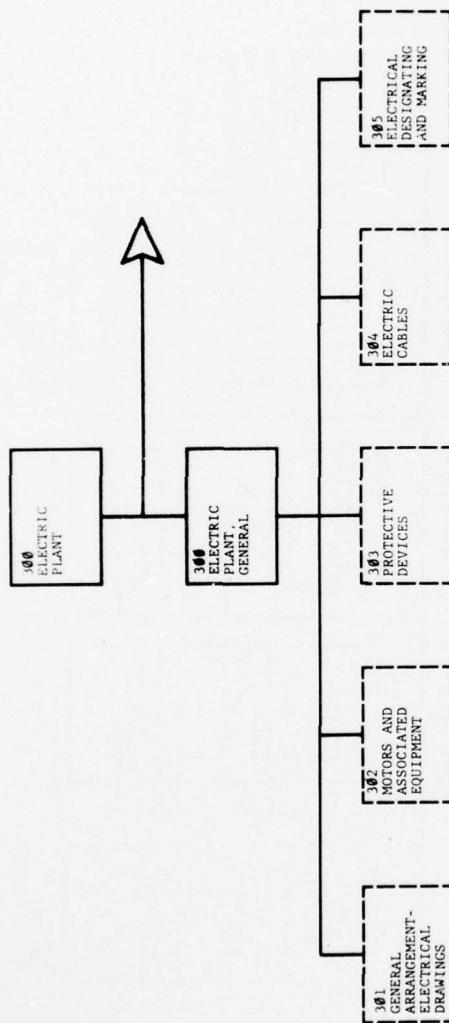


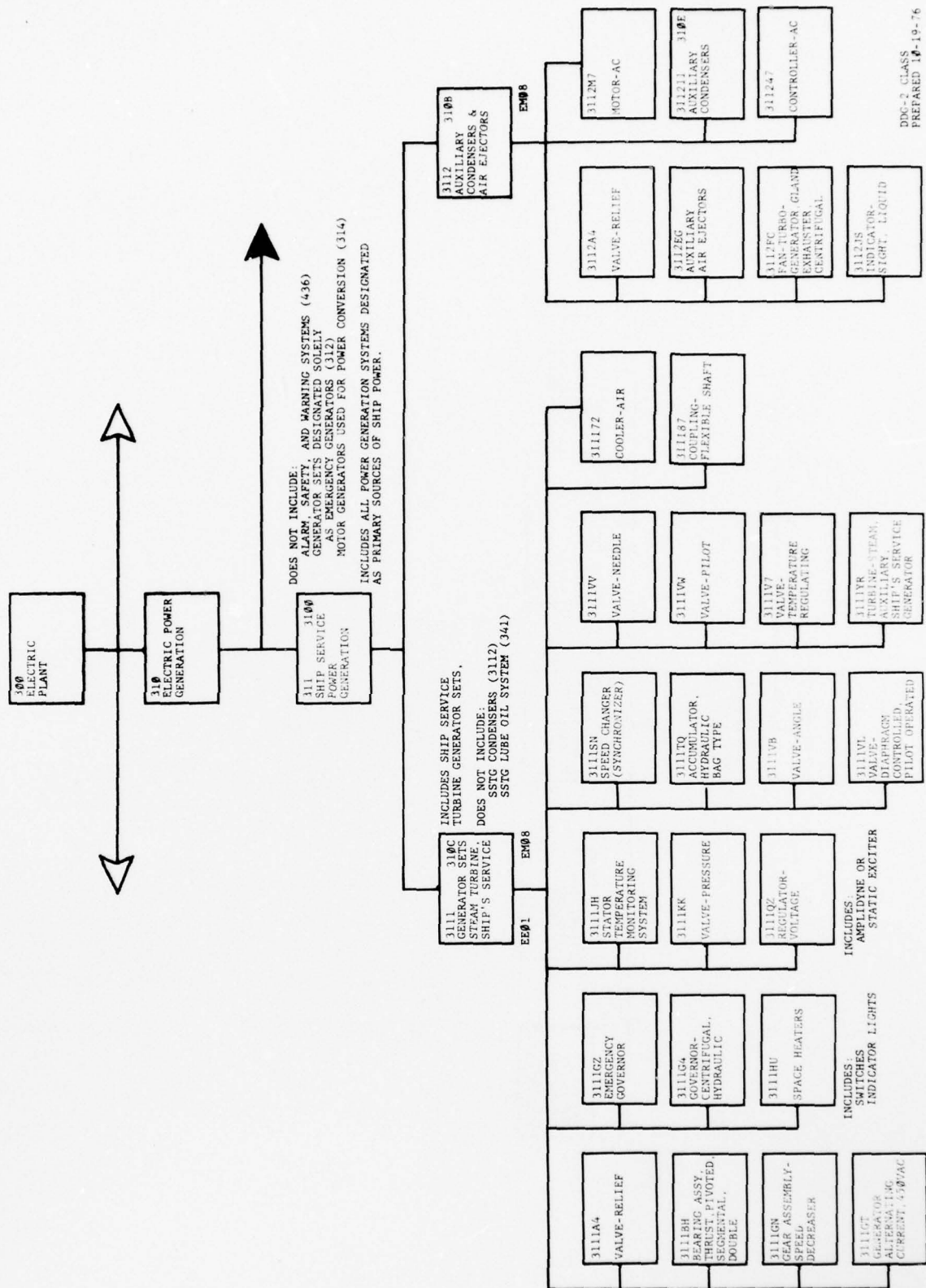


DDG-2 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SNRS SHIP SYSTEM DIAGRAM  
200 PROPULSION PLANT  
260 PROPULSION SUPPORT SYSTEMS (FUEL AND LUBE OIL)  
264 LUBE OIL FILL, TRANSFER, AND PURIFICATION

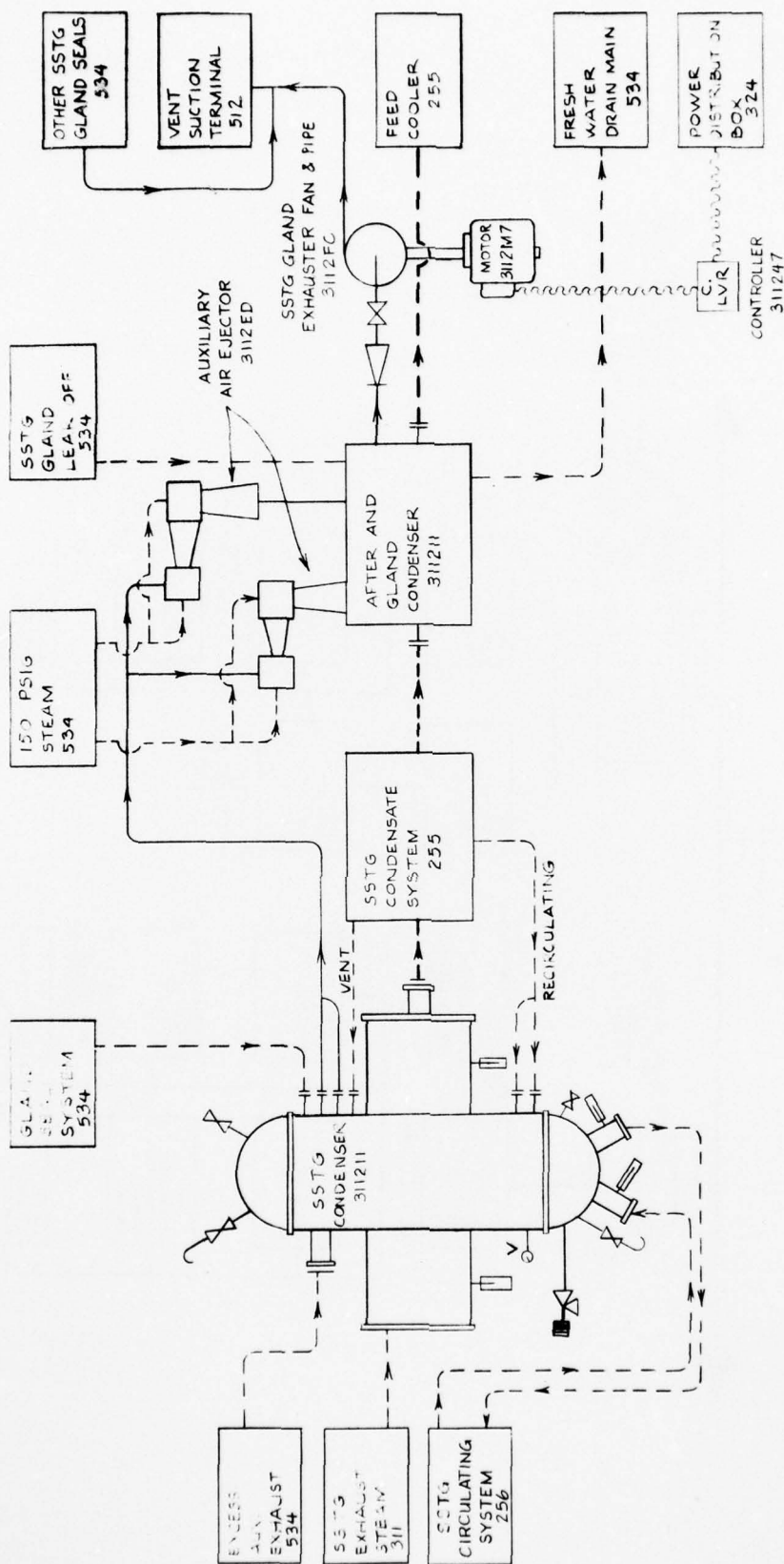




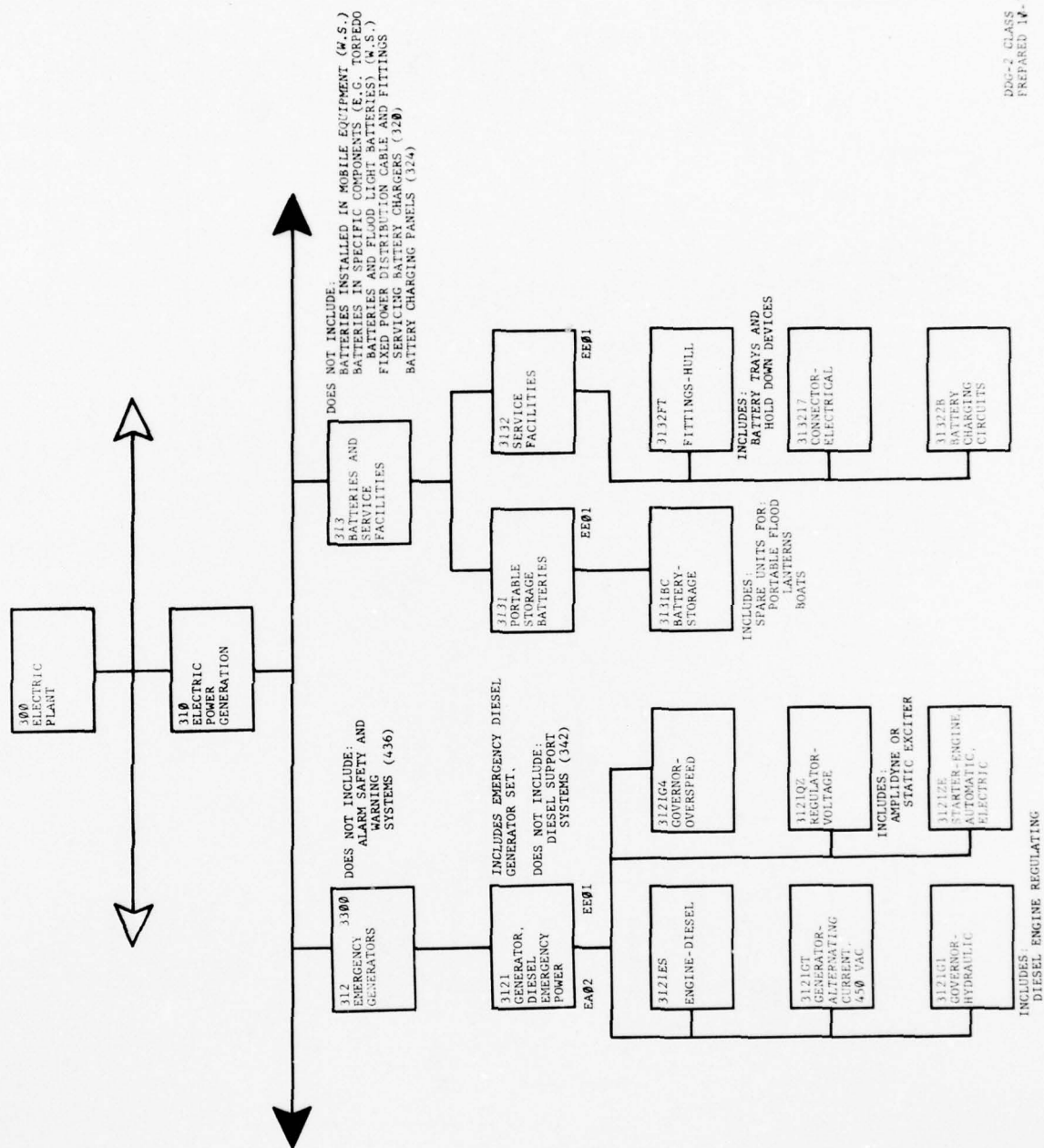




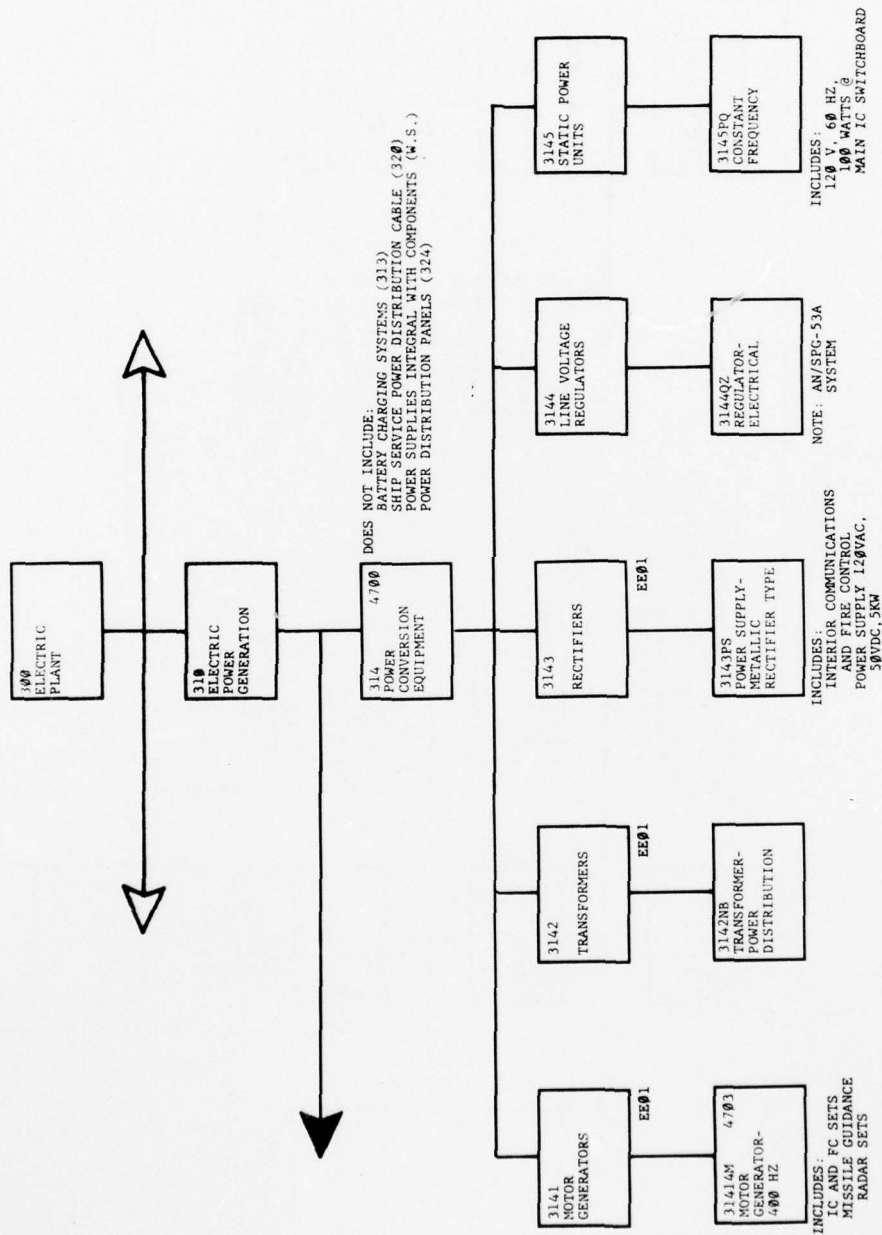
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PREPARED 10-10-76

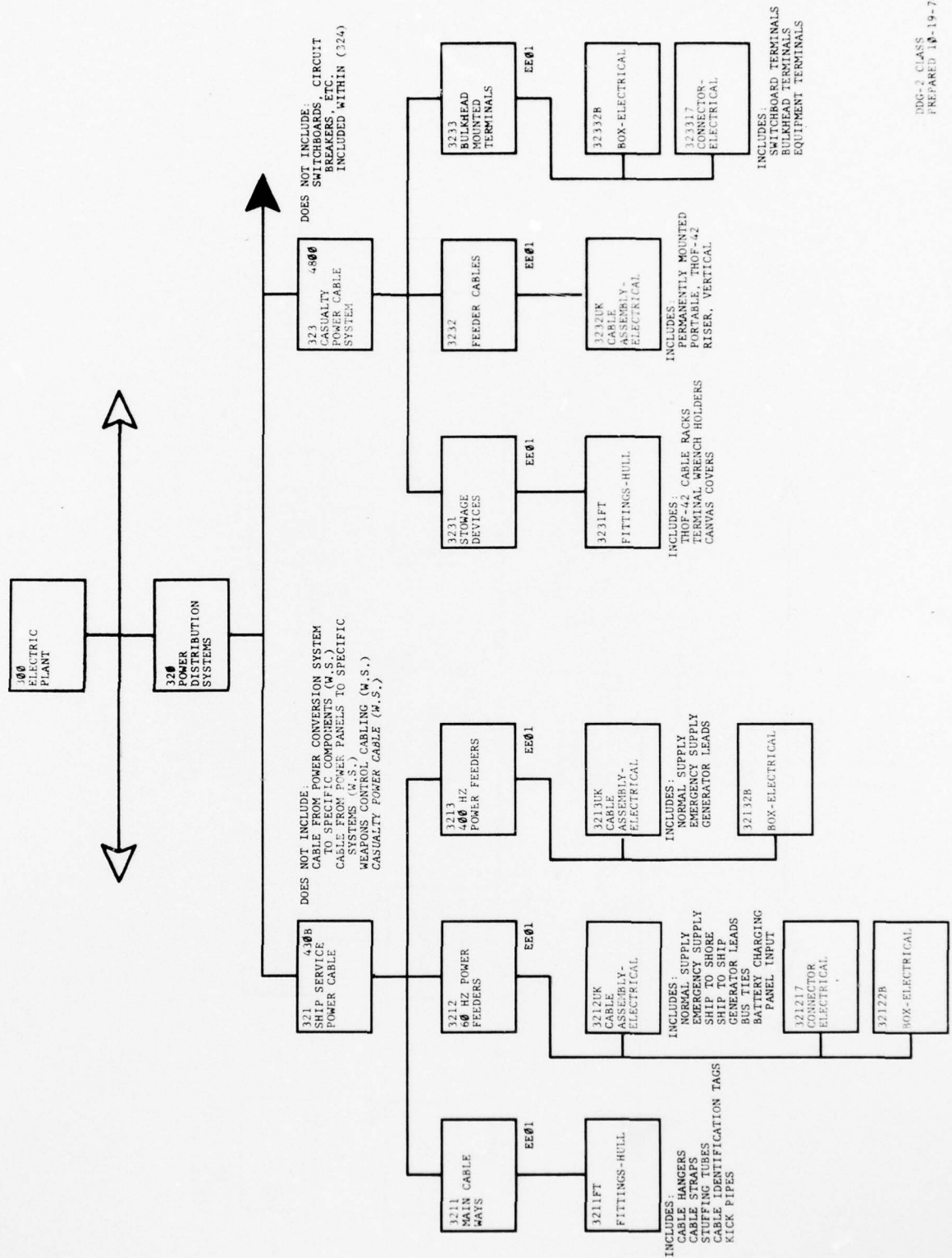


DDG-2 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SWS SHIP SYSTEM DIAGRAM  
300 ELECTRIC PLANT  
310 ELECTRIC POWER GENERATION  
311 SHIP'S SERVICE POWER GENERATION CONDENSERS













**UNCLASSIFIED**

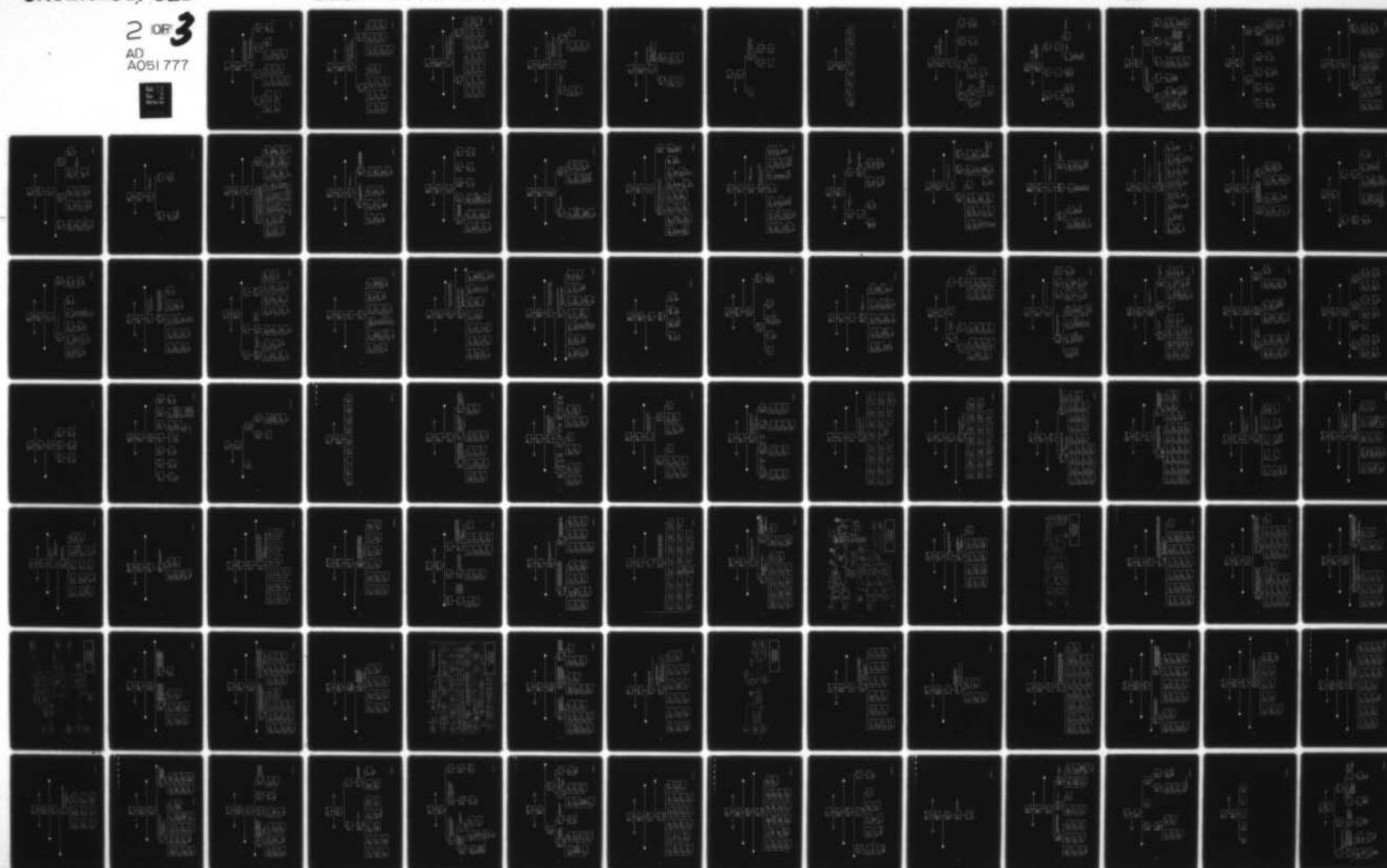
2 OF 3  
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**F/G 13/10**

DIAGRAMS) FOR D--ETC(U)  
N00140-74-D-0090

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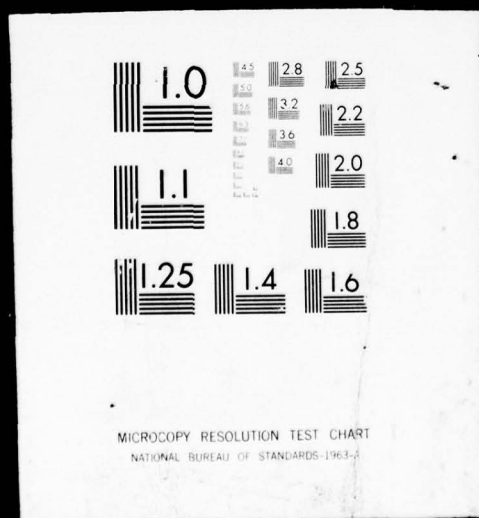




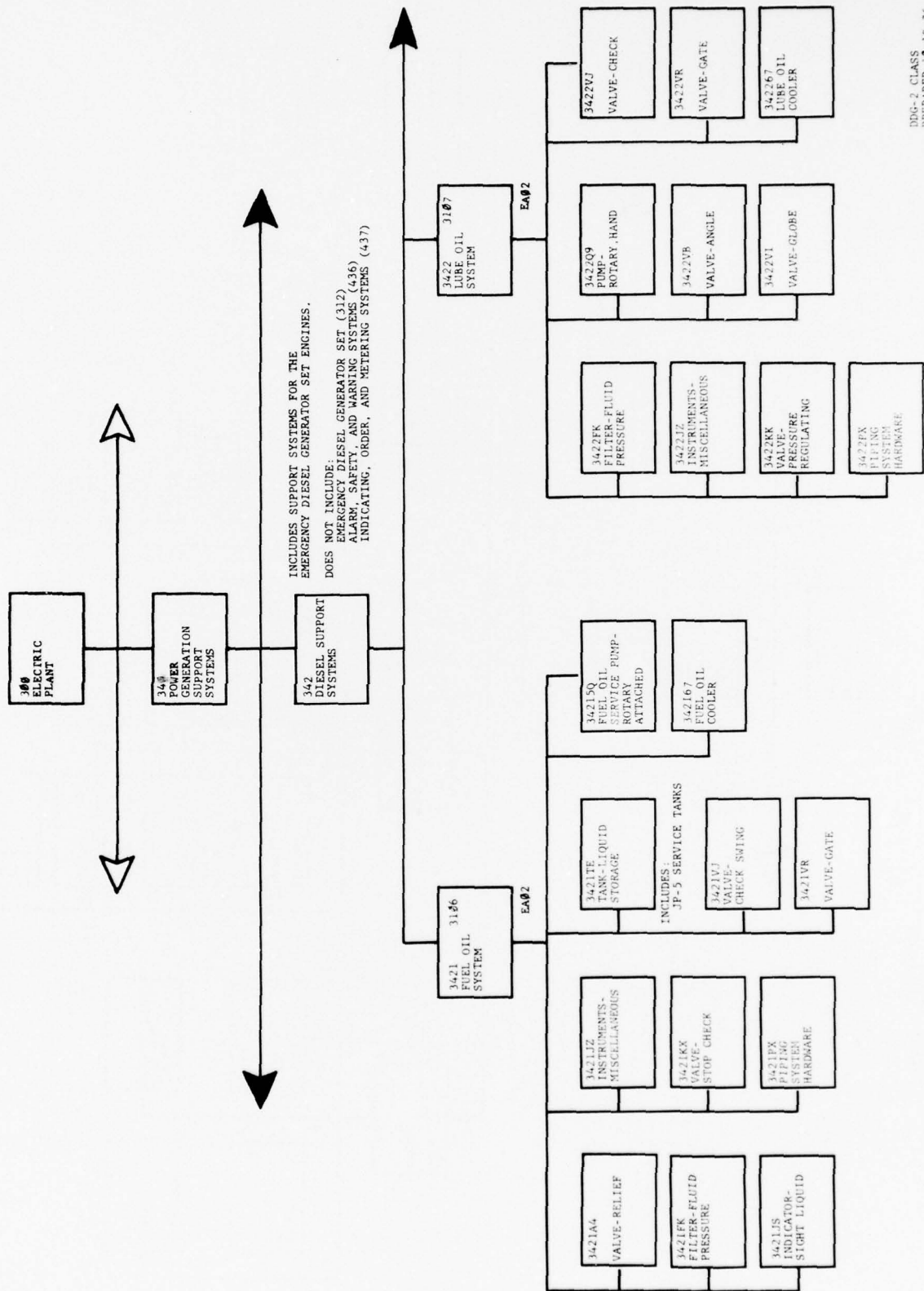
2 OF 3

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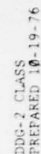
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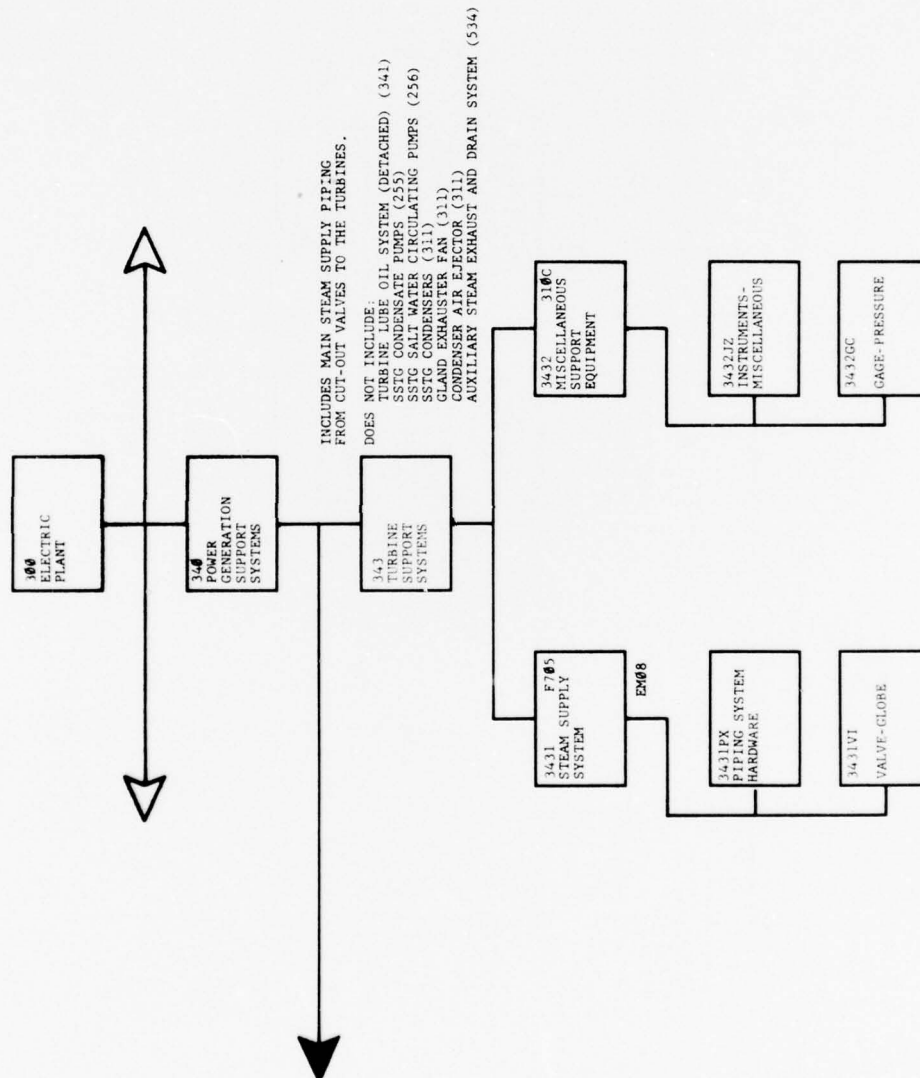


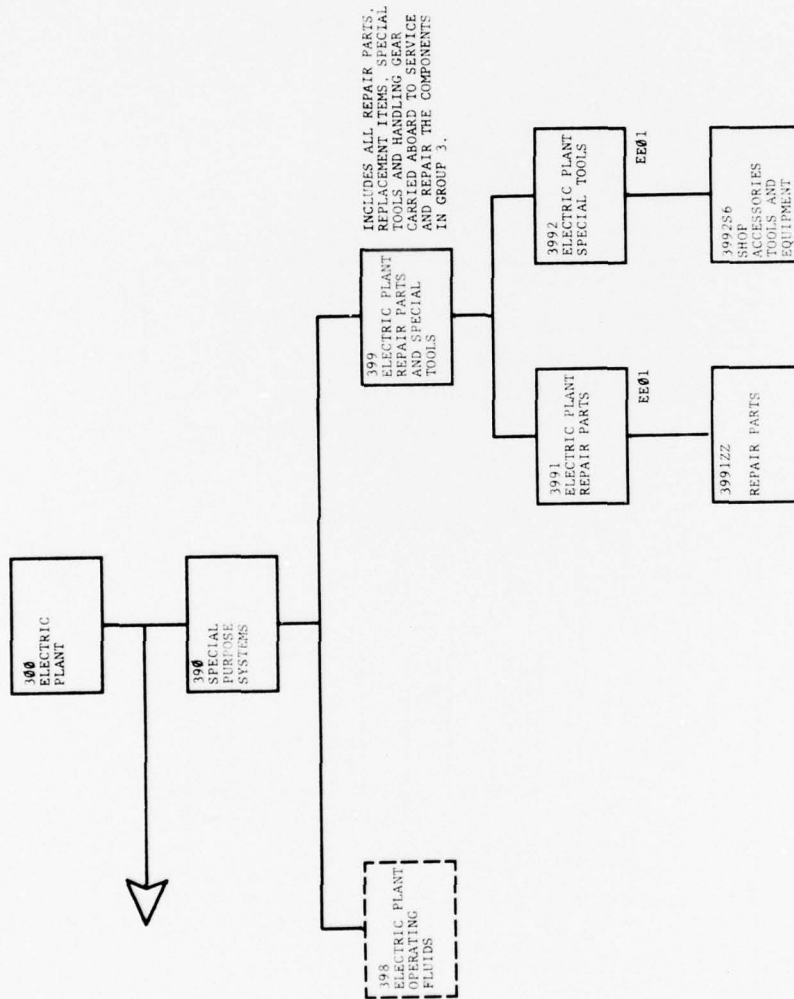


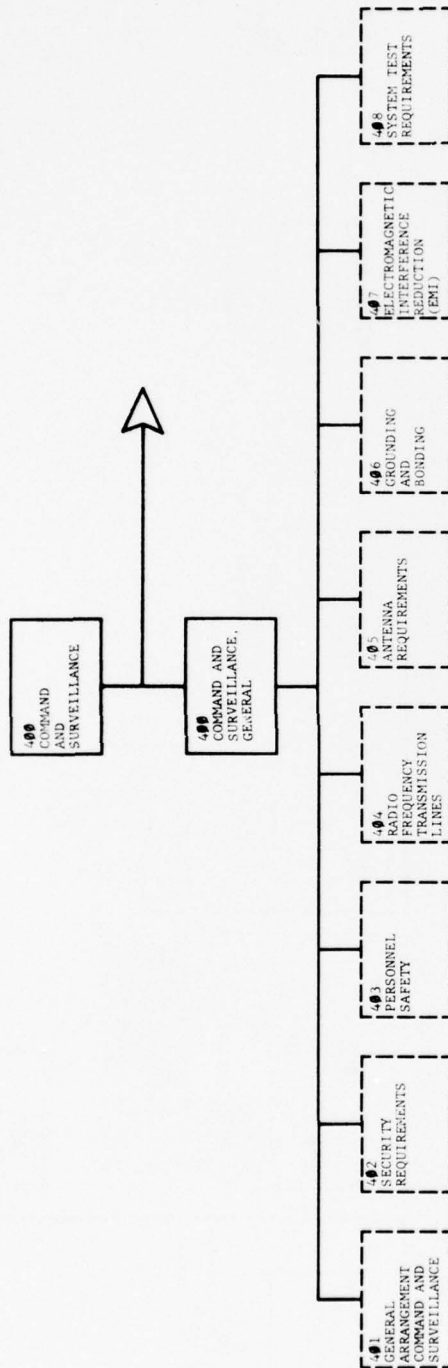




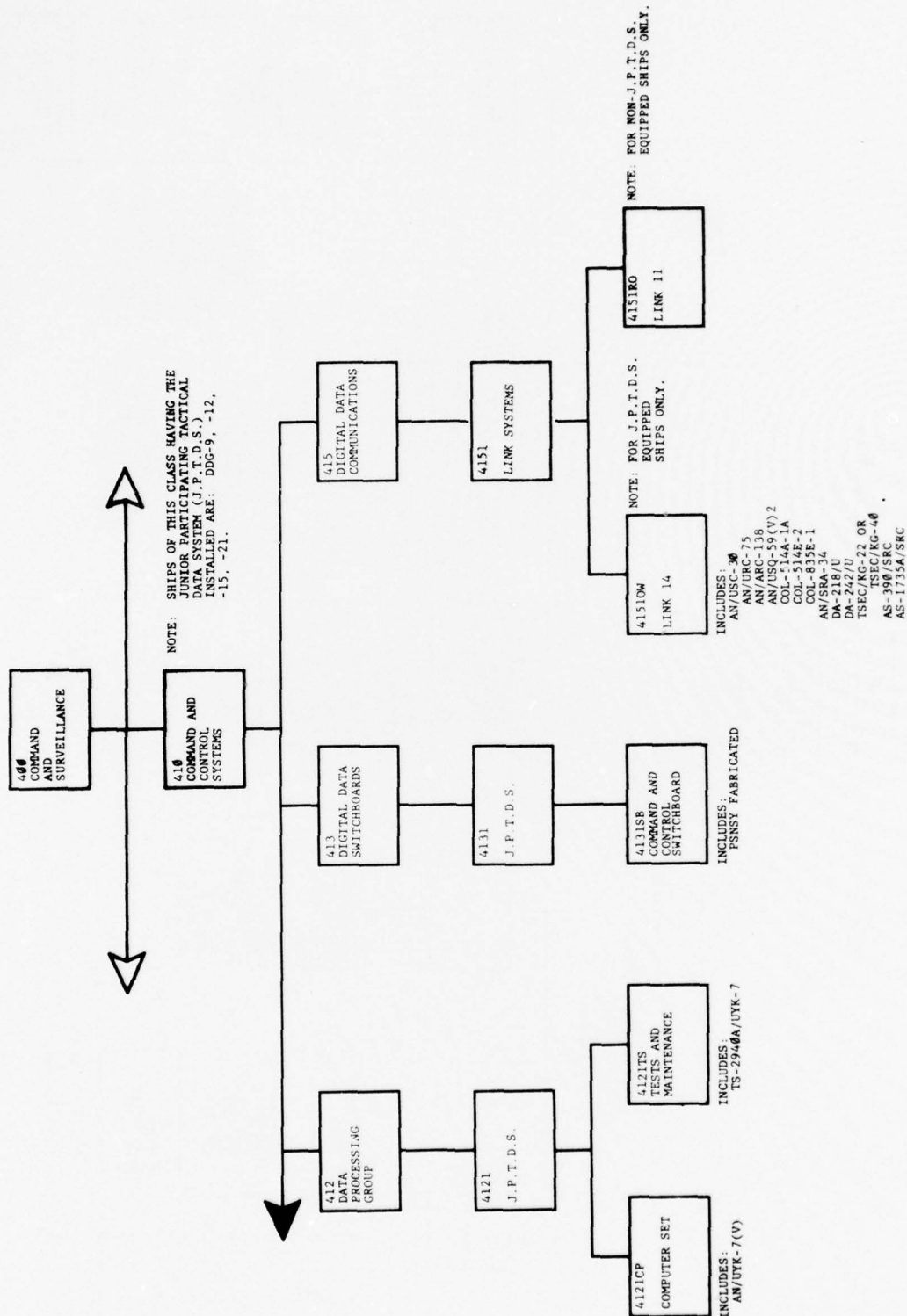






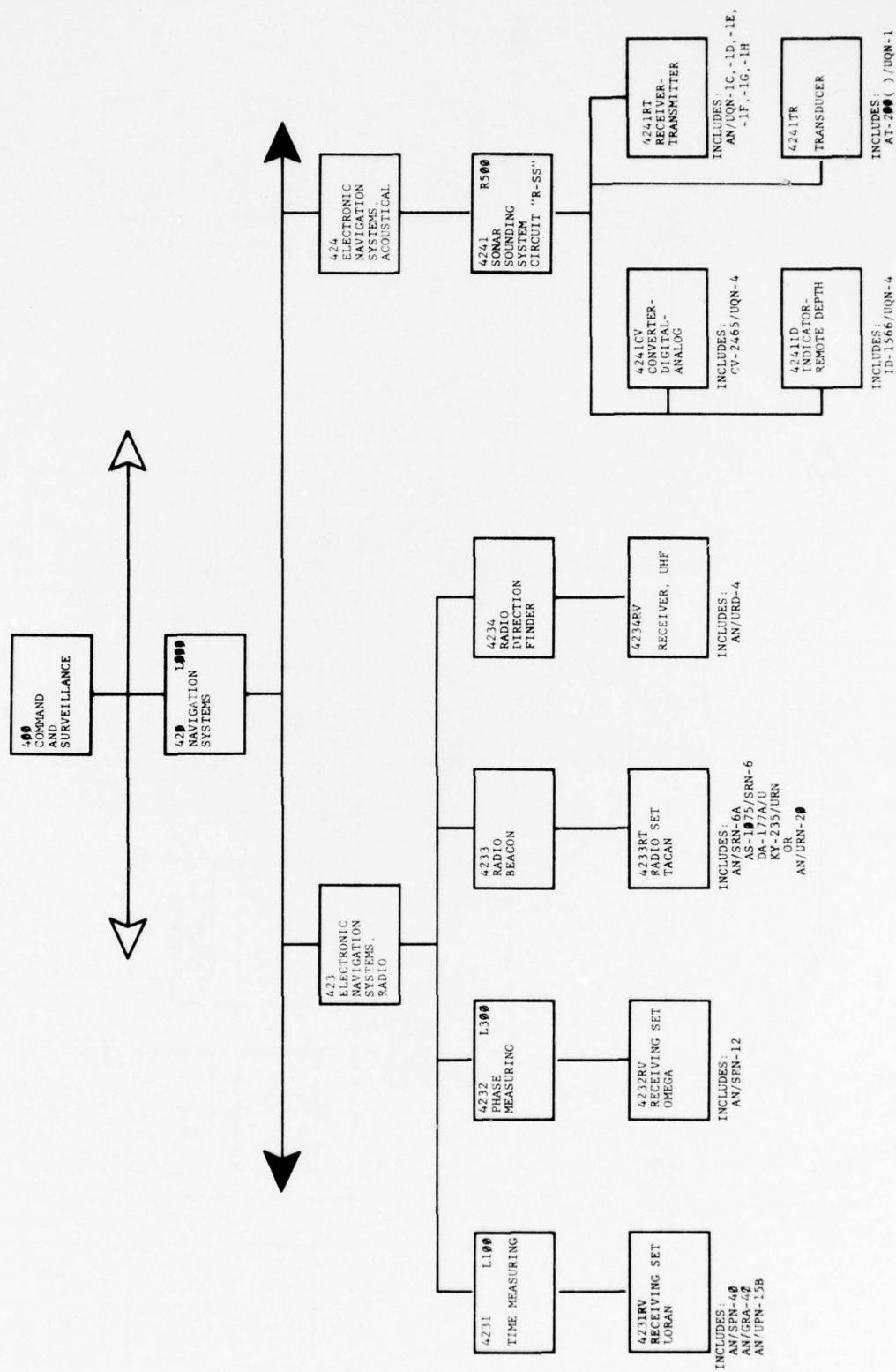


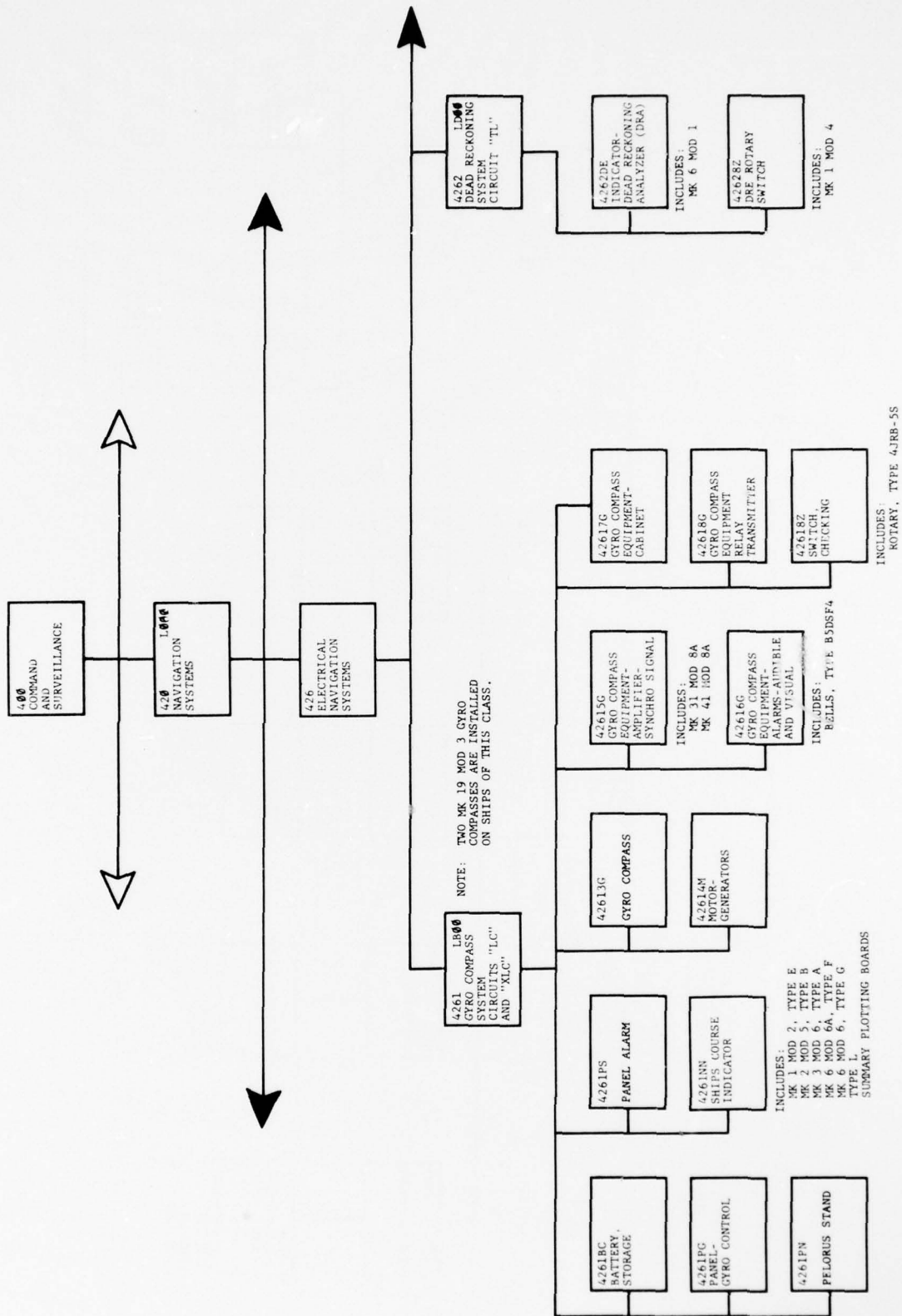


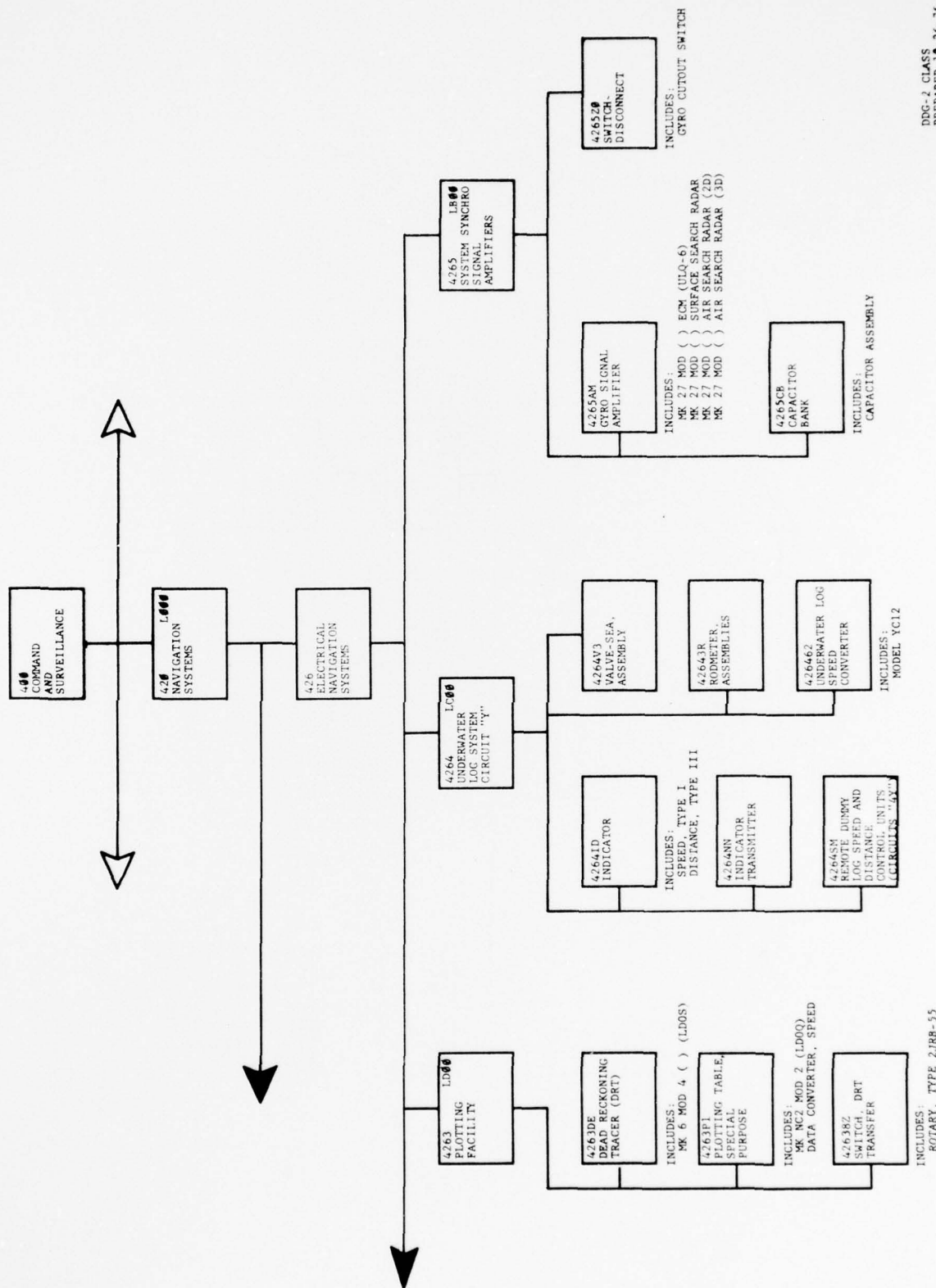




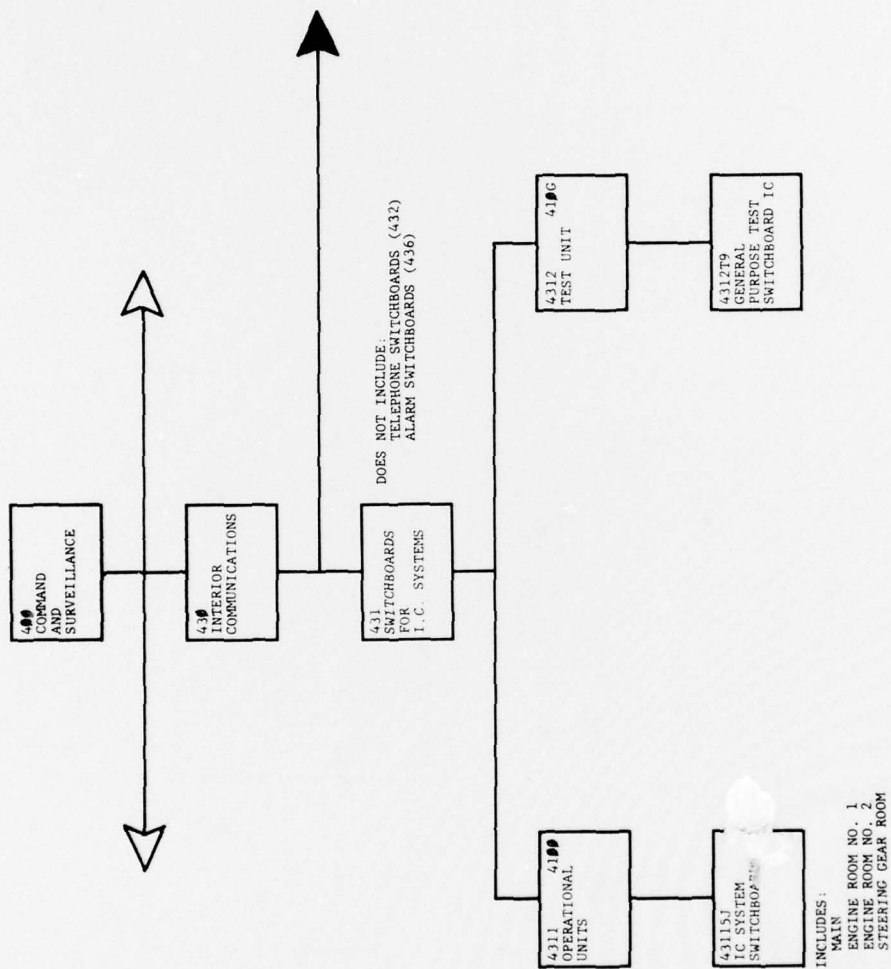




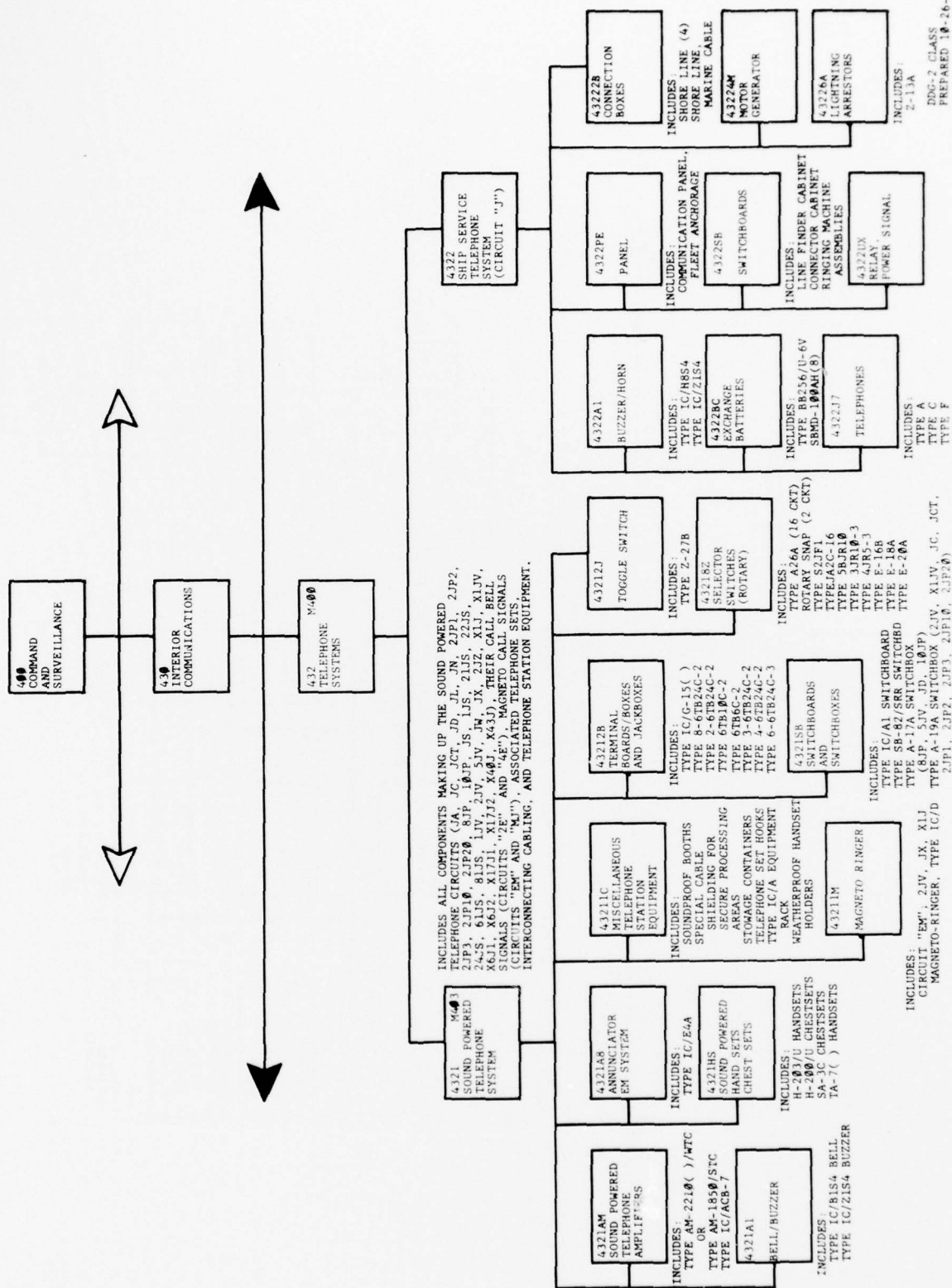


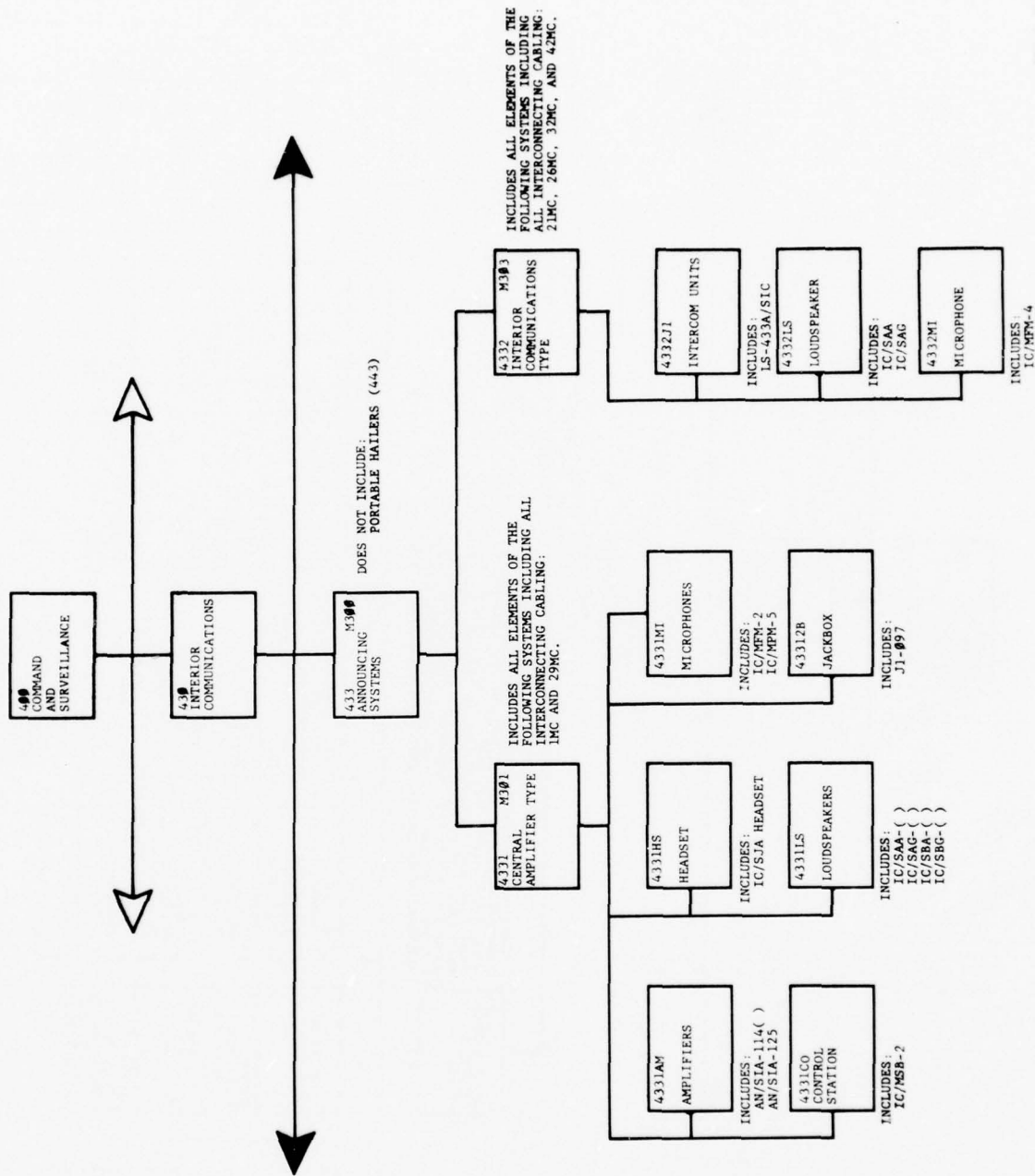


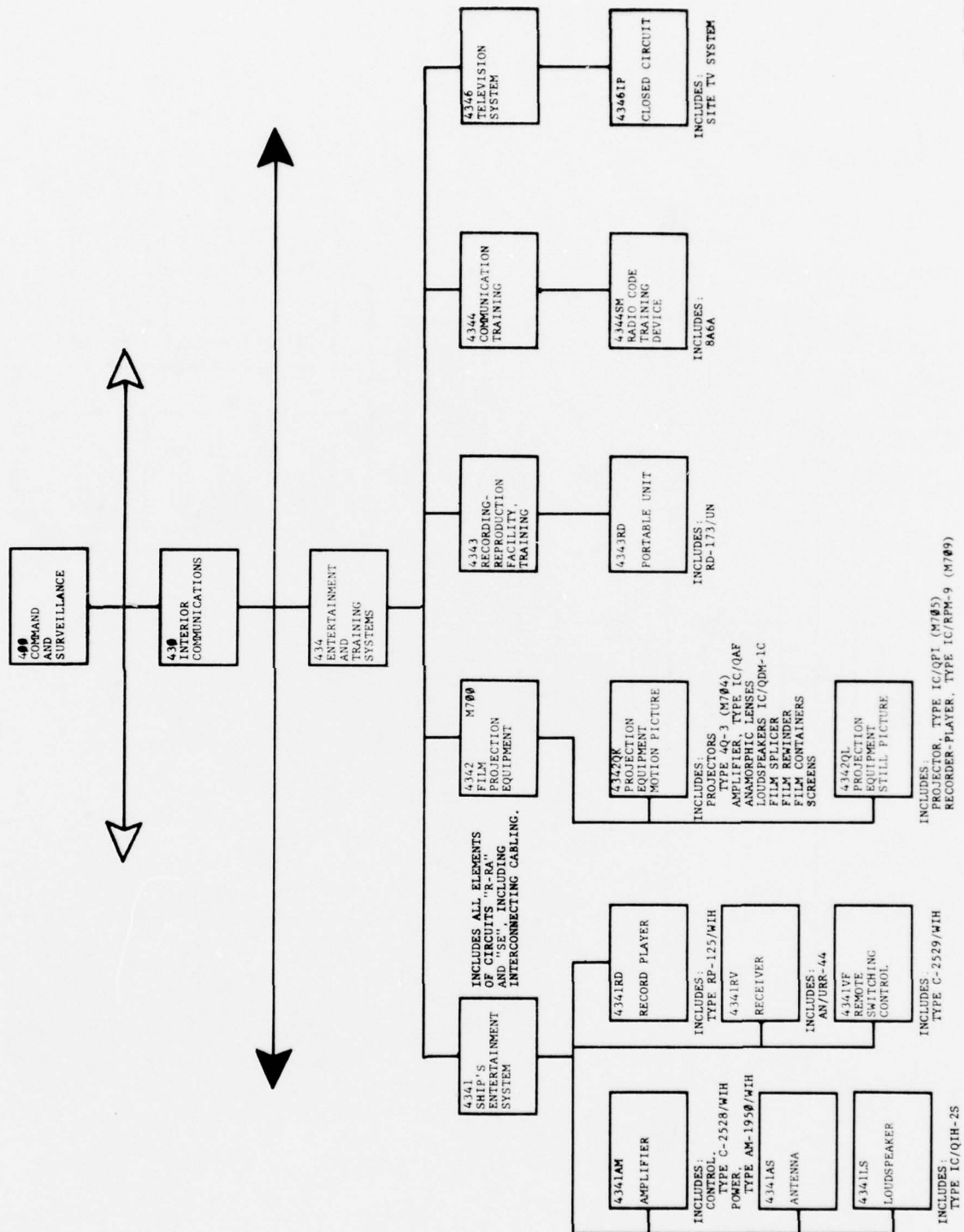
DDG-2 CLASS  
PREPARED 10-26-76



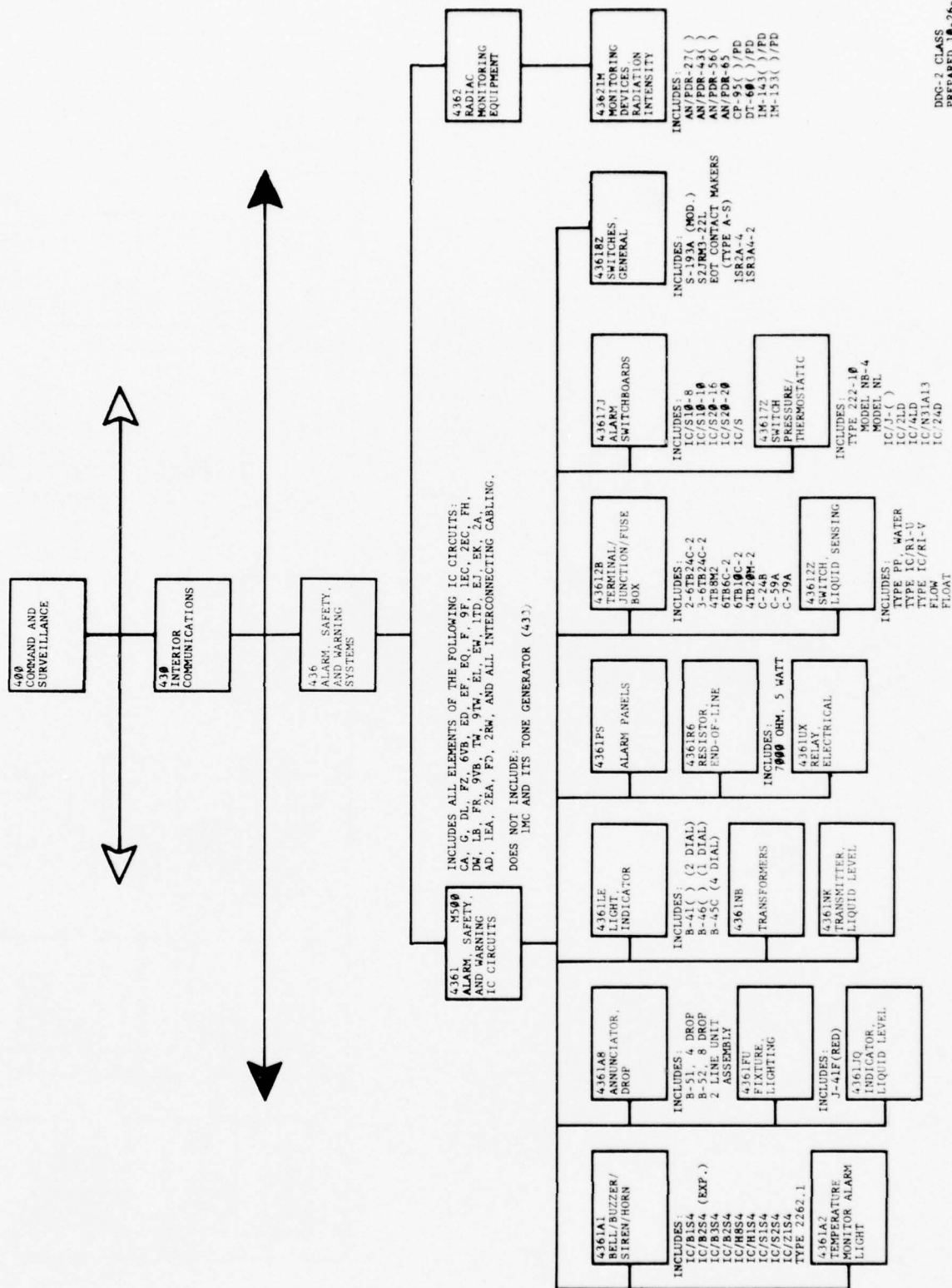




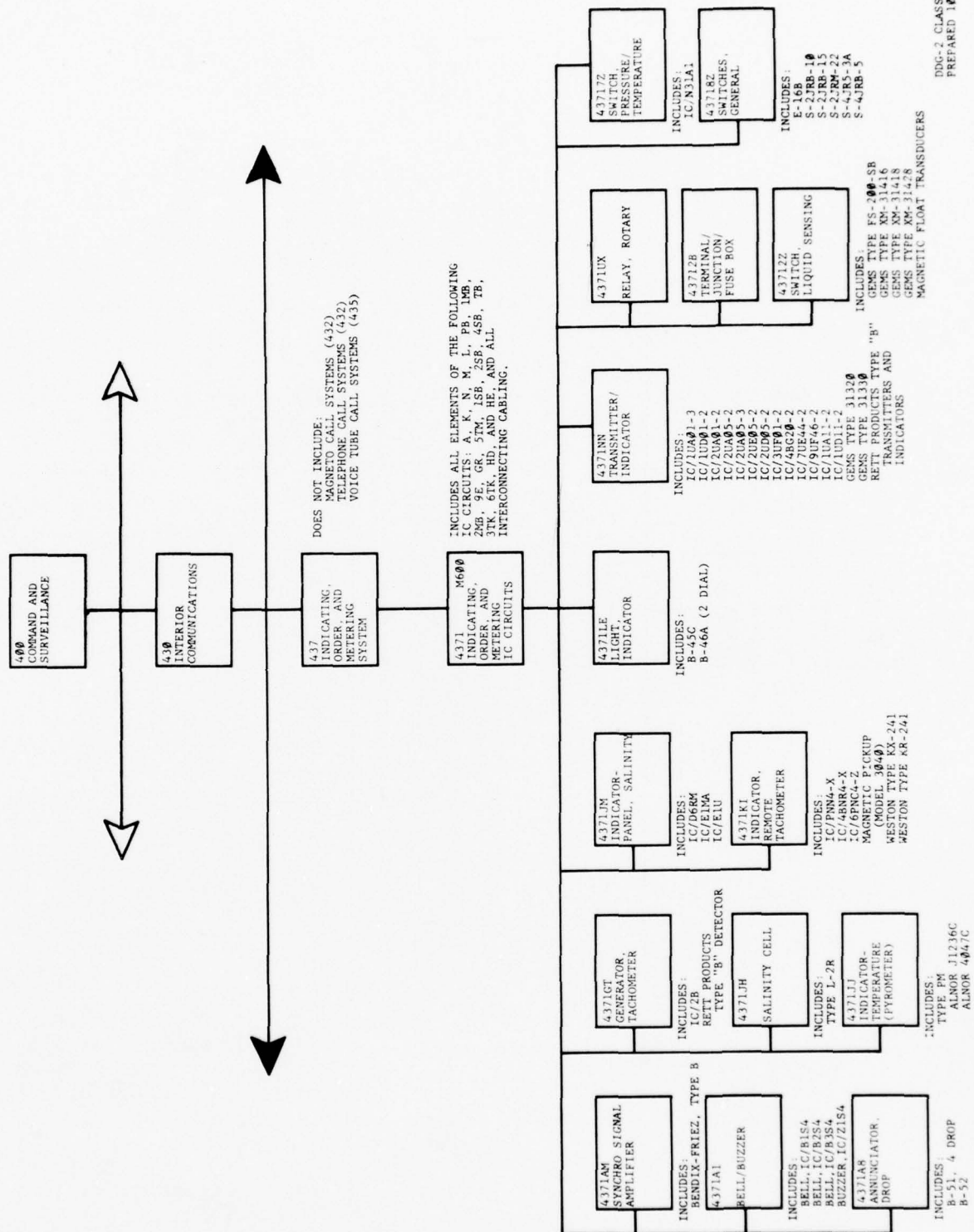


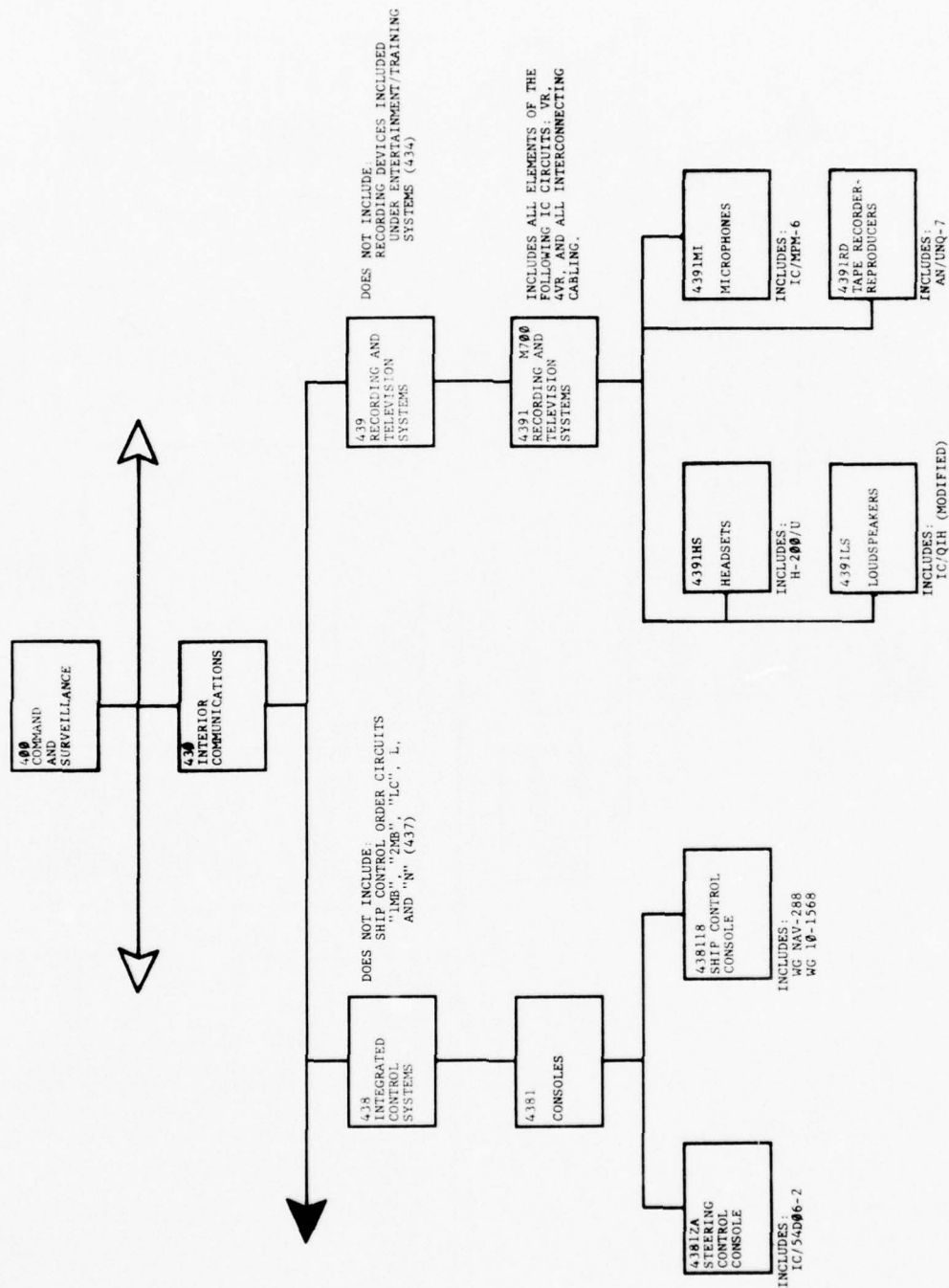






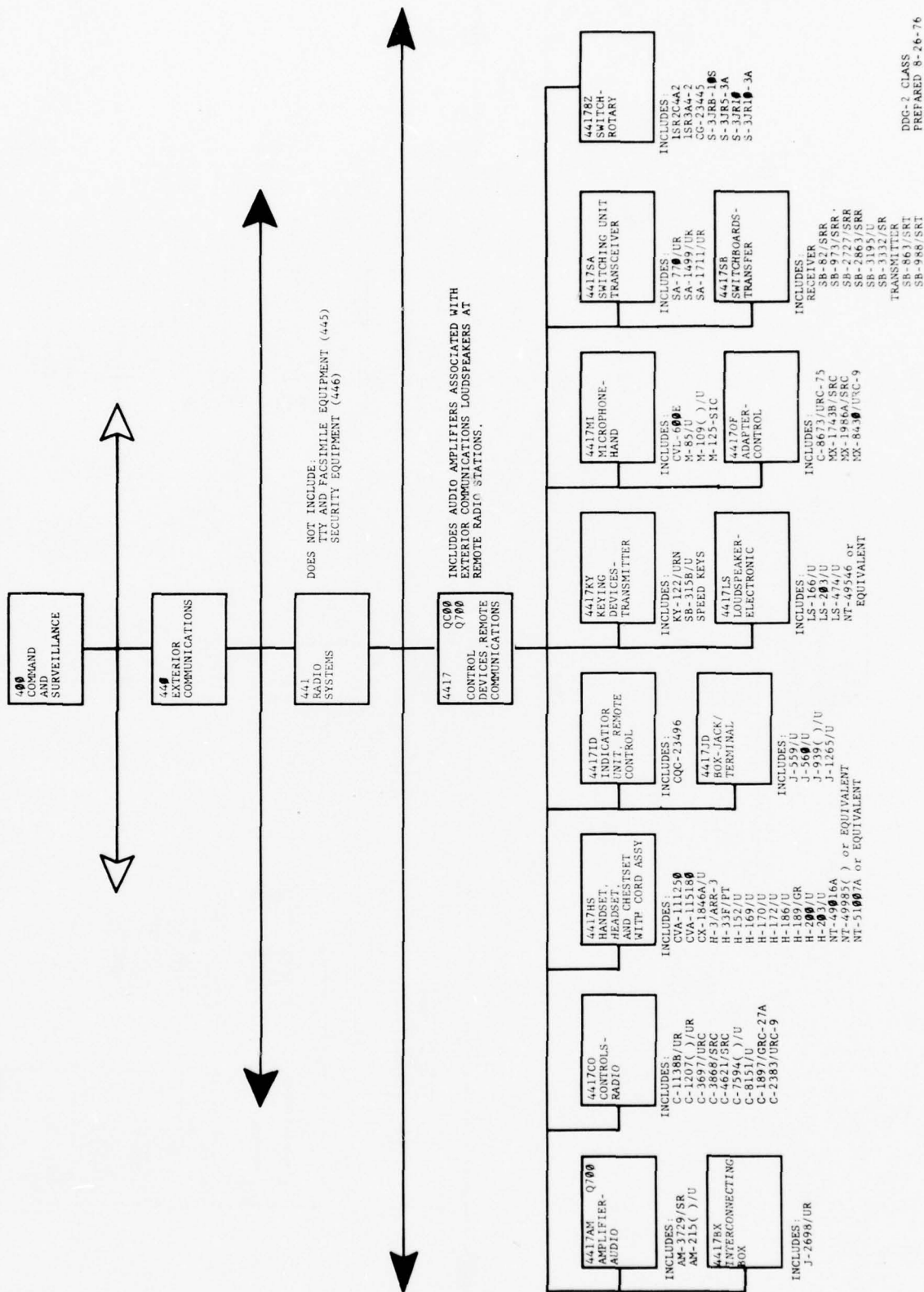






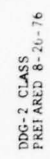


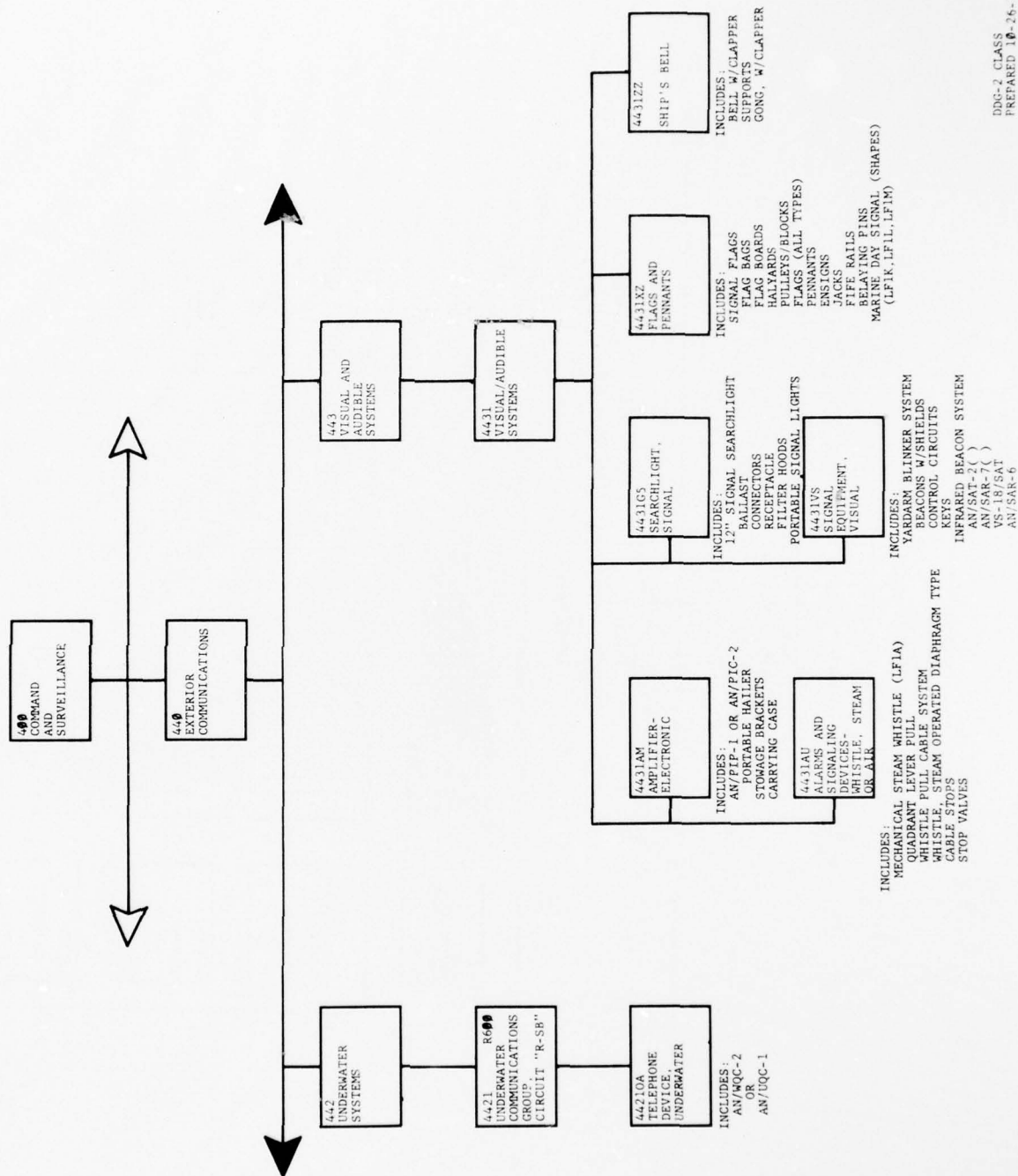


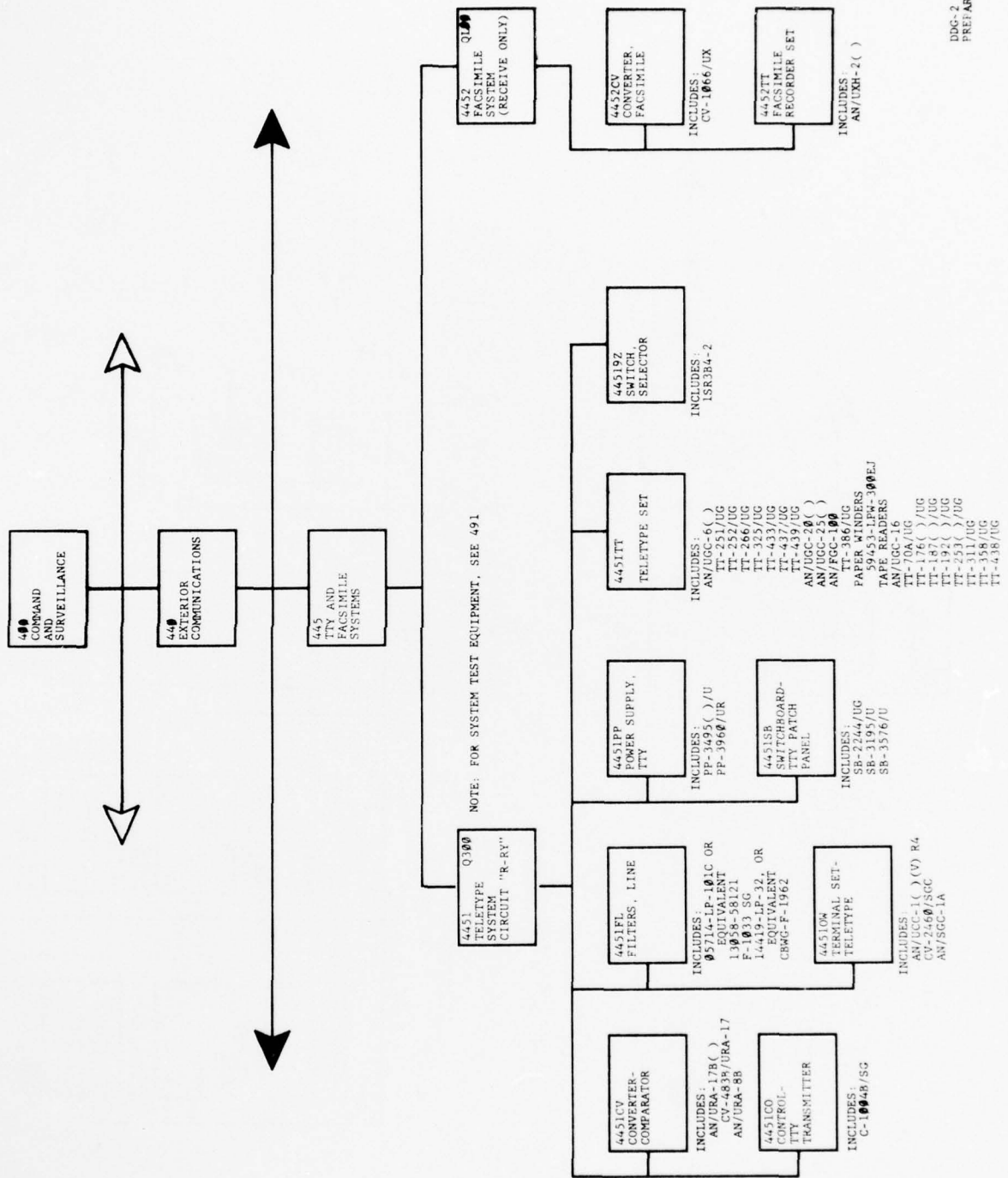


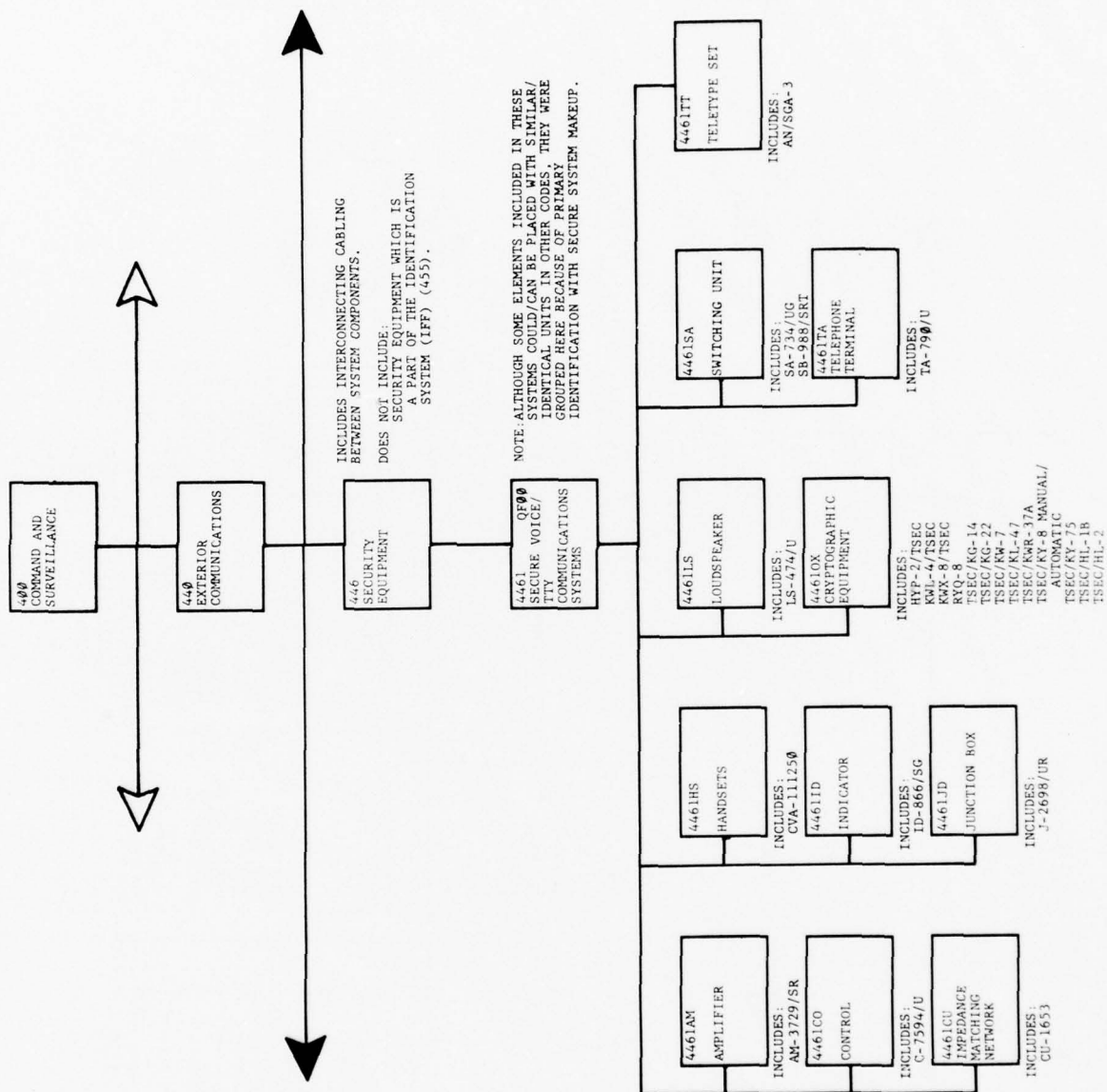
DDG-2 CLASS  
PREPARED 8-26-76

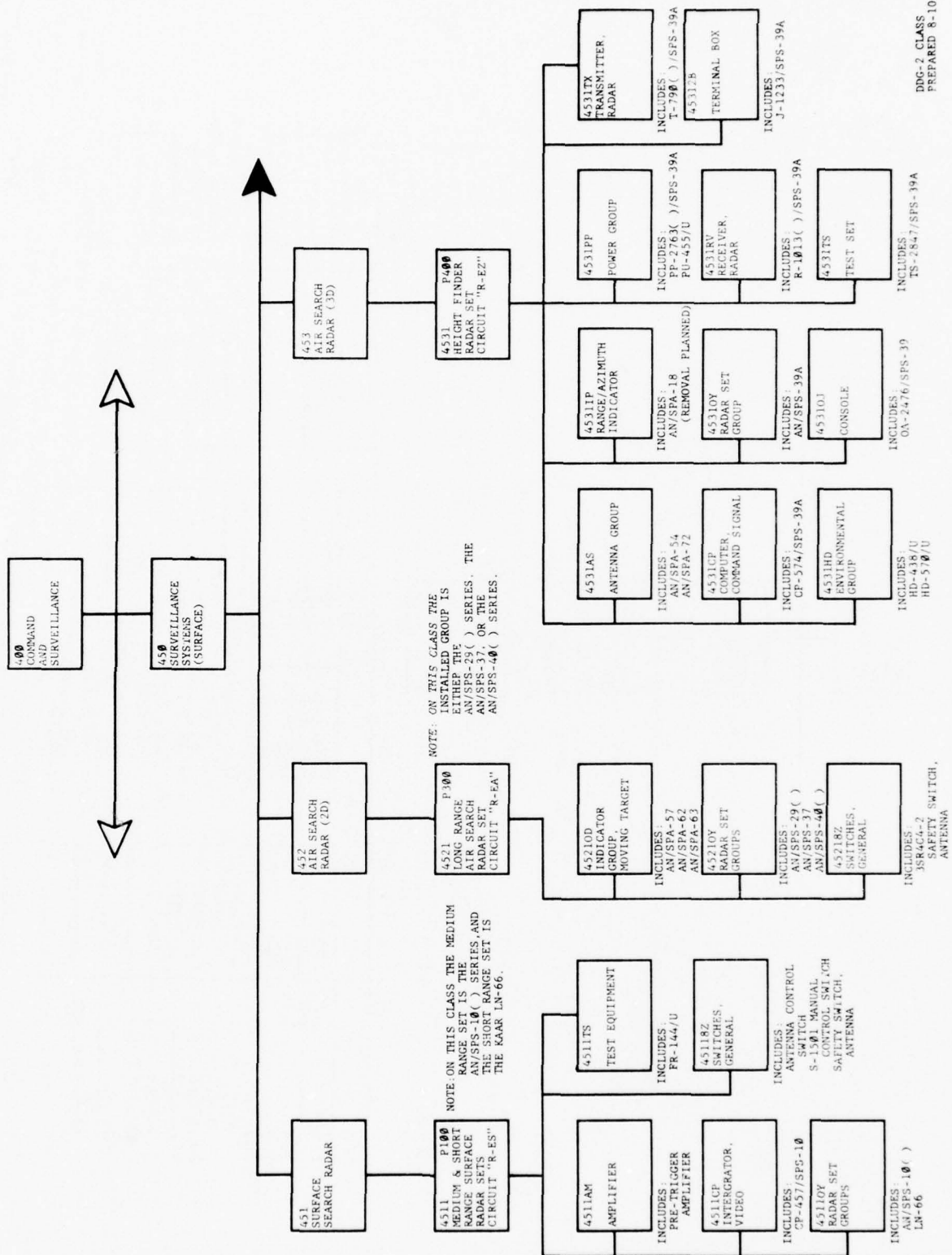




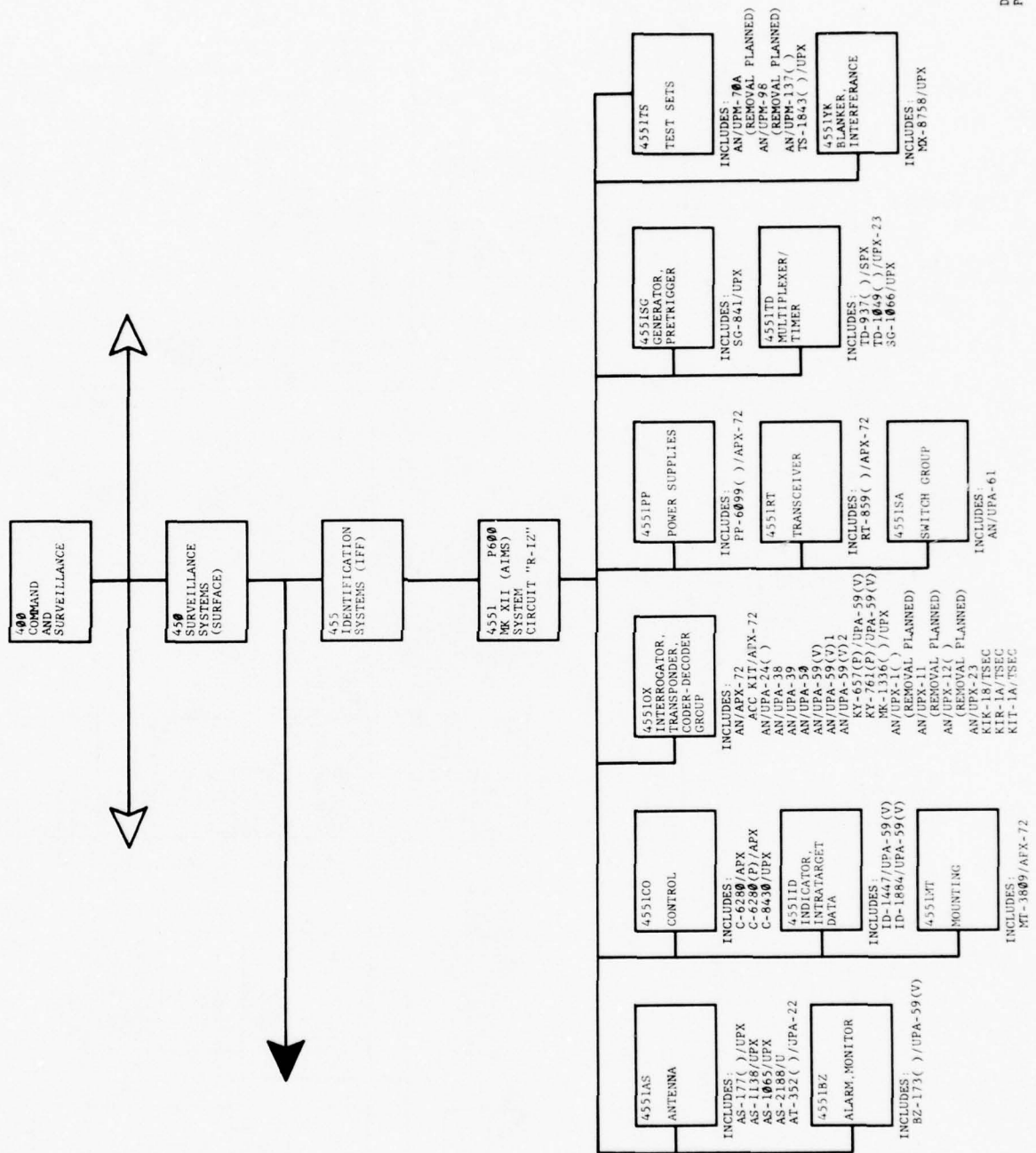




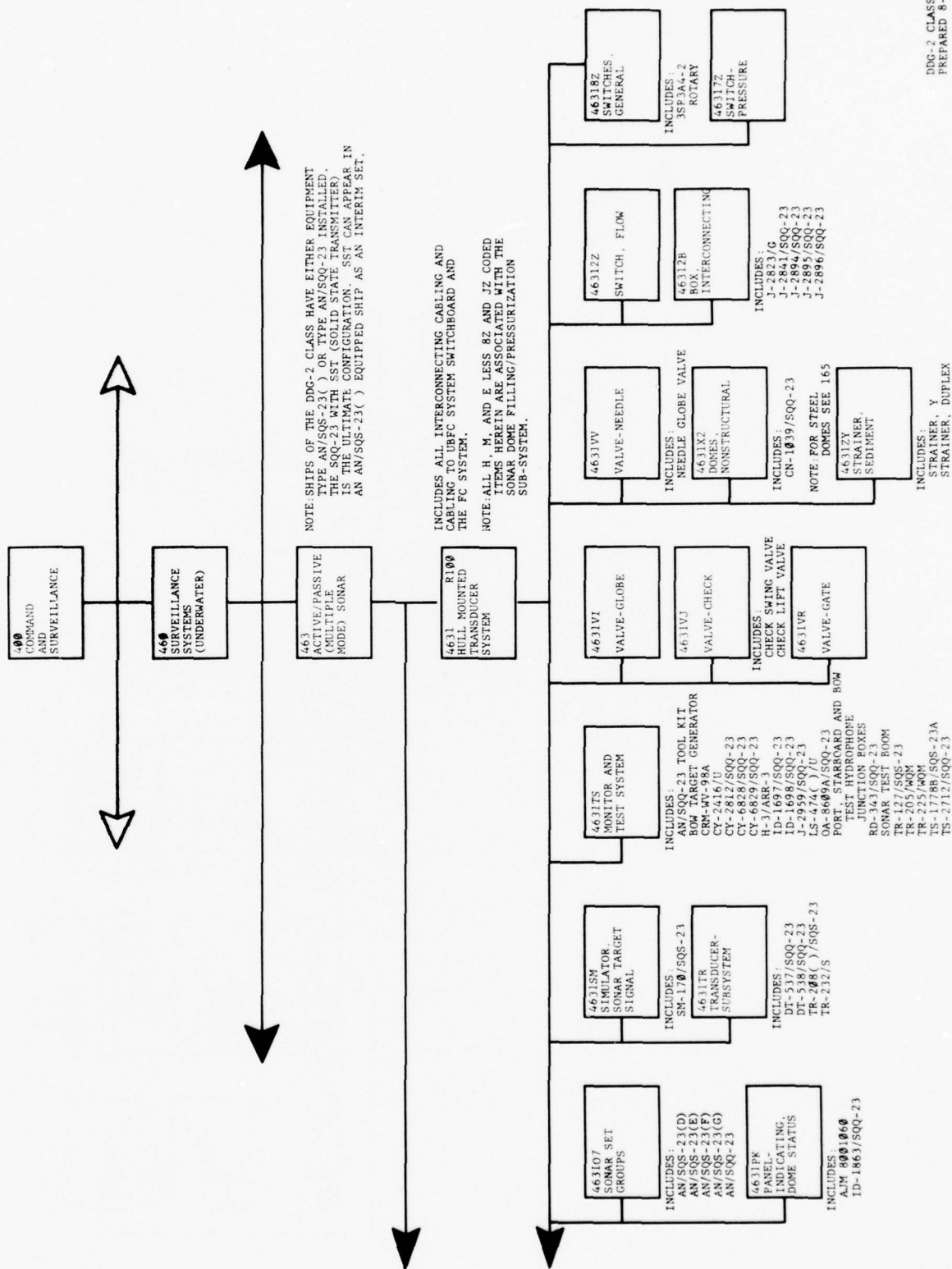


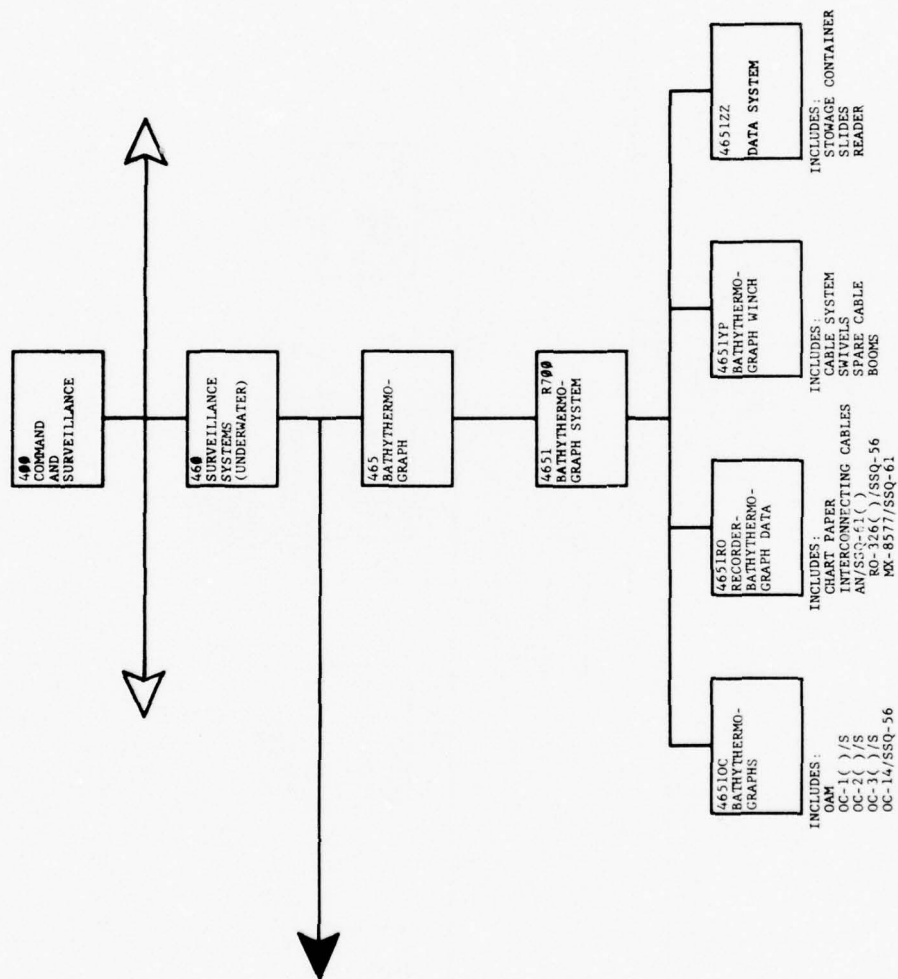


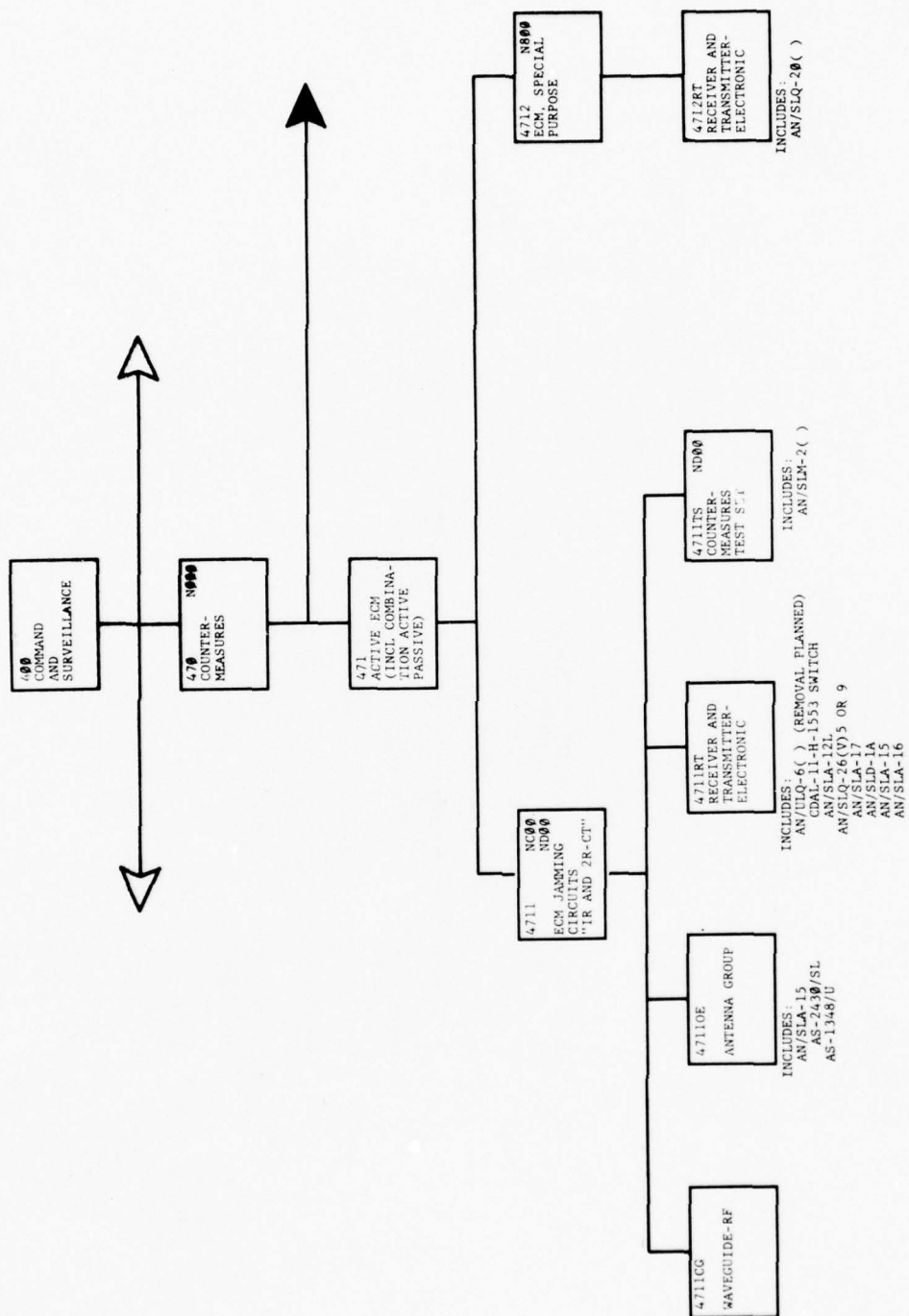




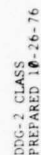


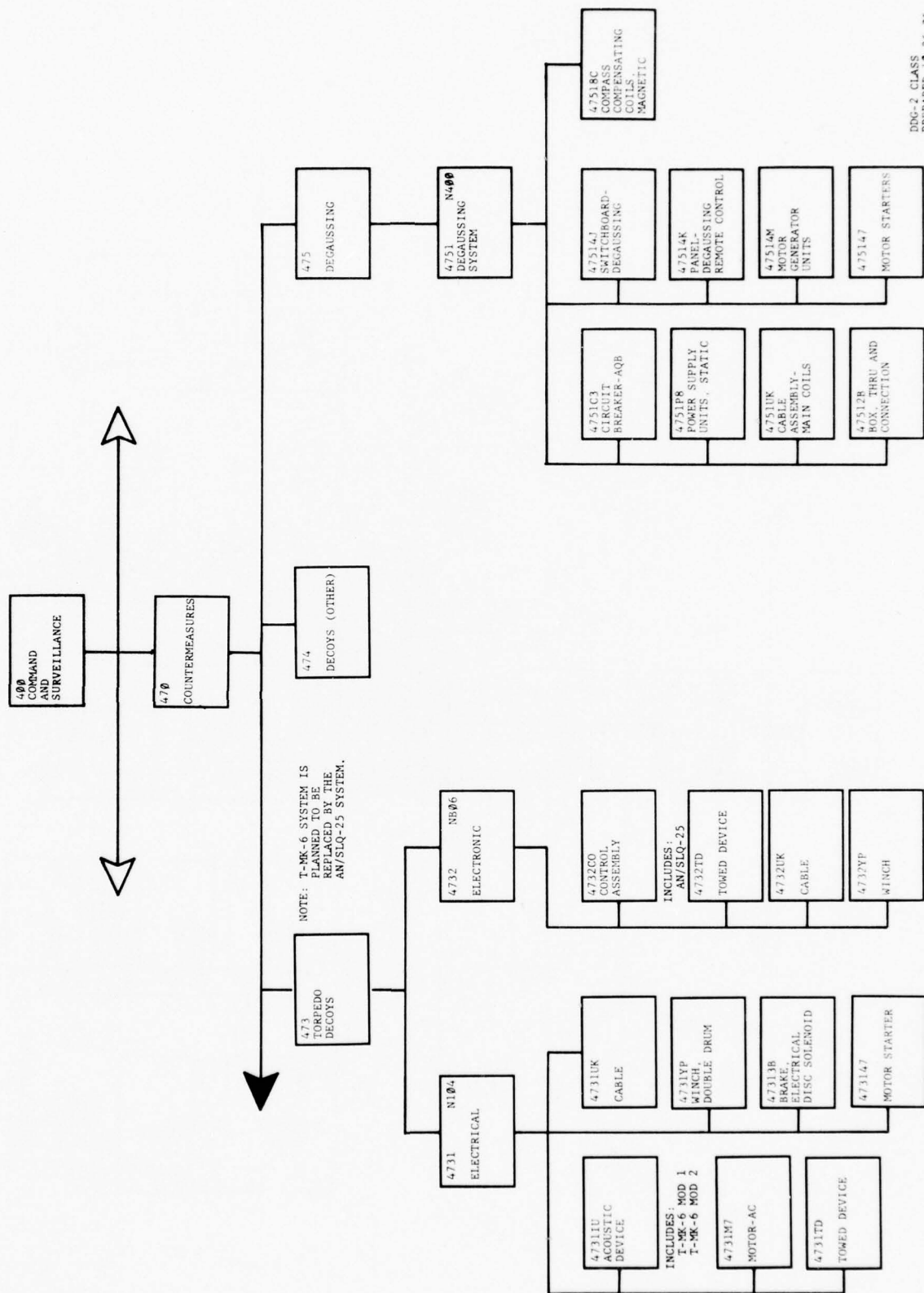




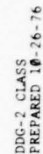




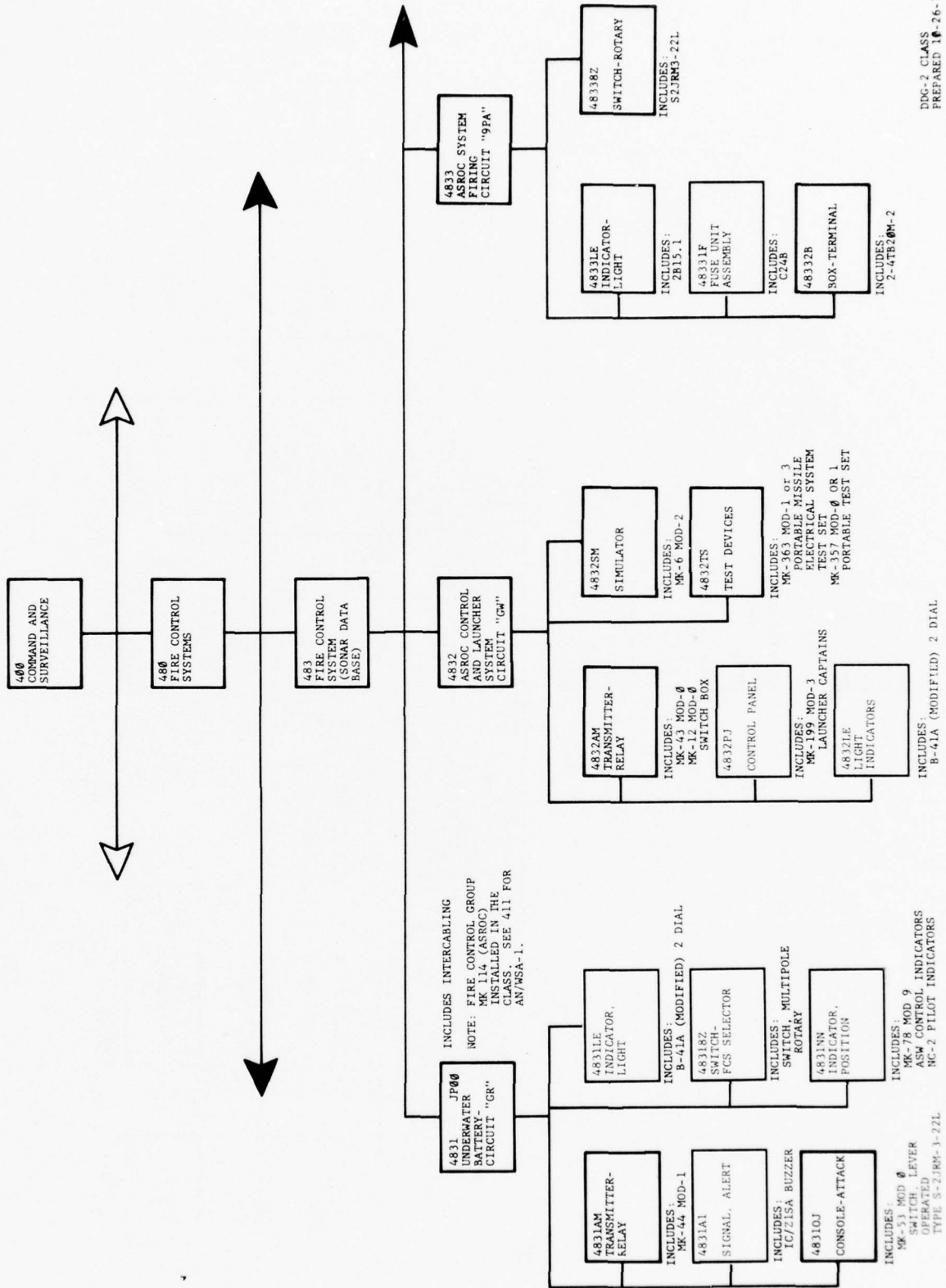




DDG-2 CLASS  
PREPARED 10-26-76

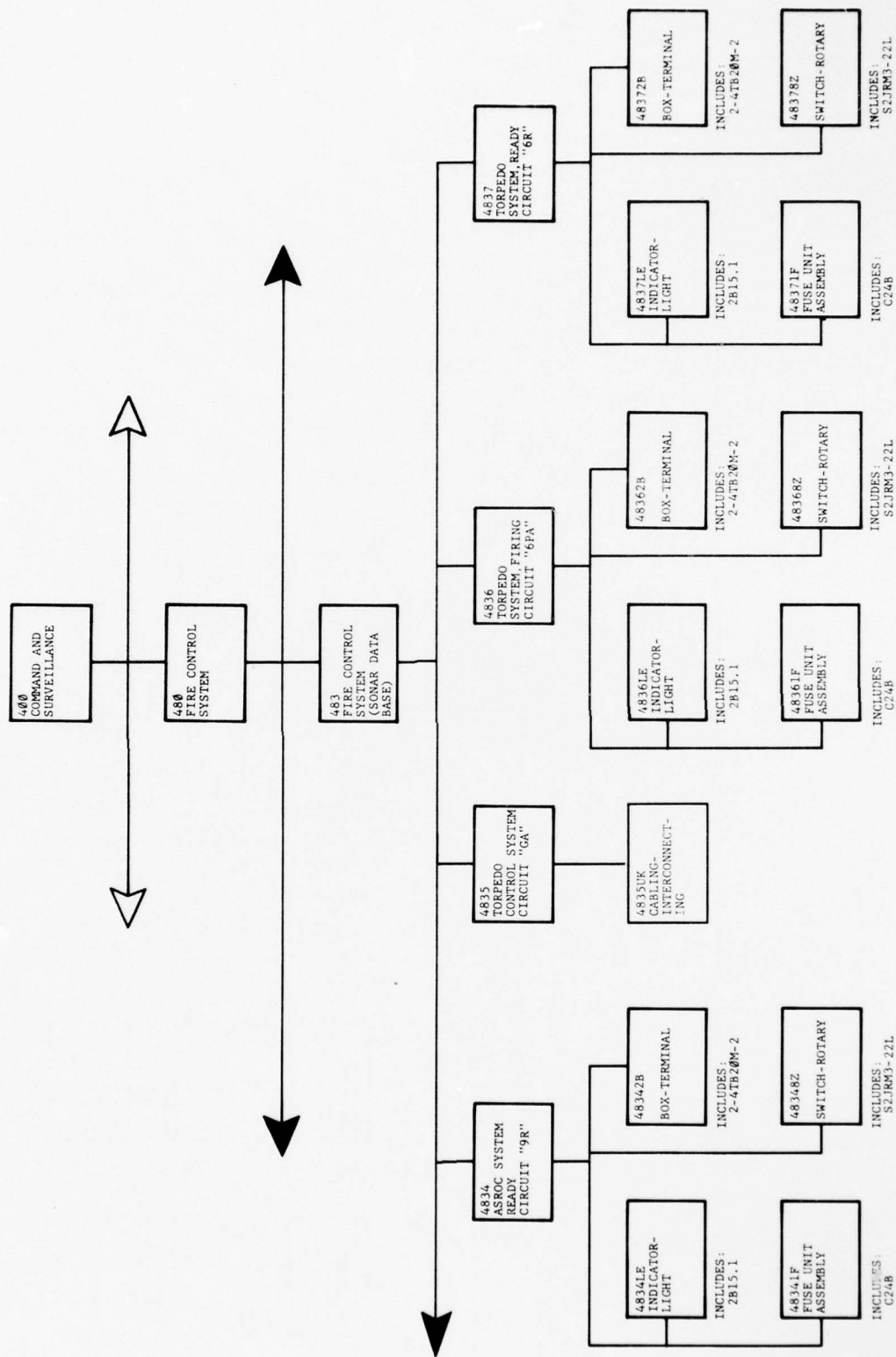


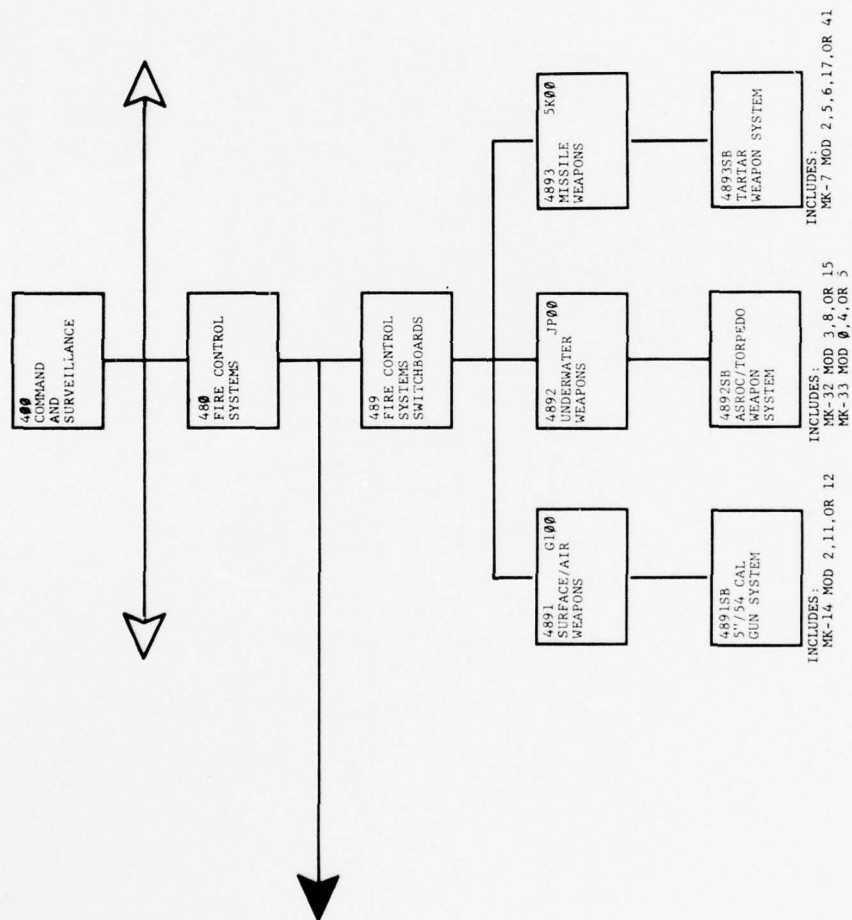


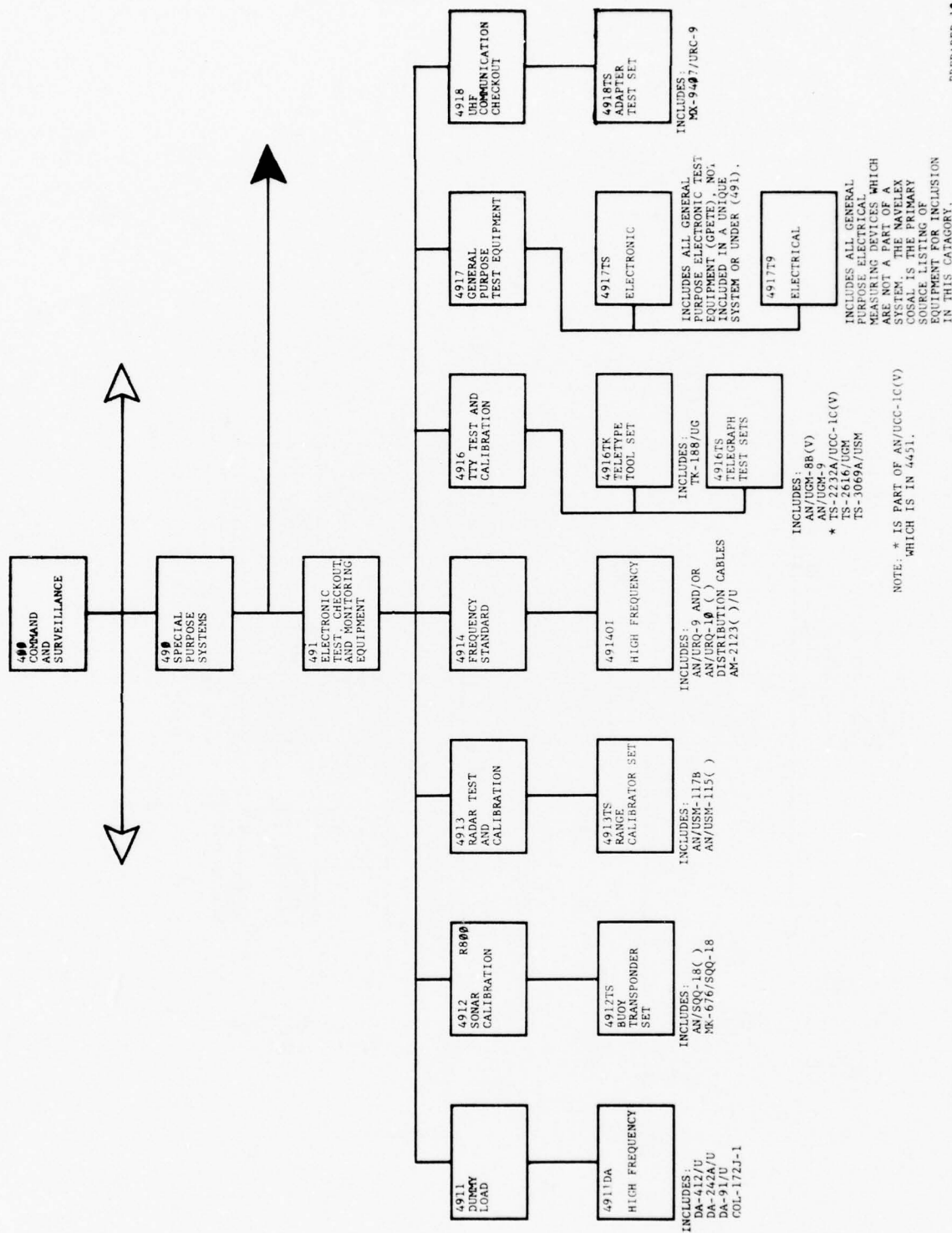


DDG-2 CLASS  
PREPARED 10-26-76

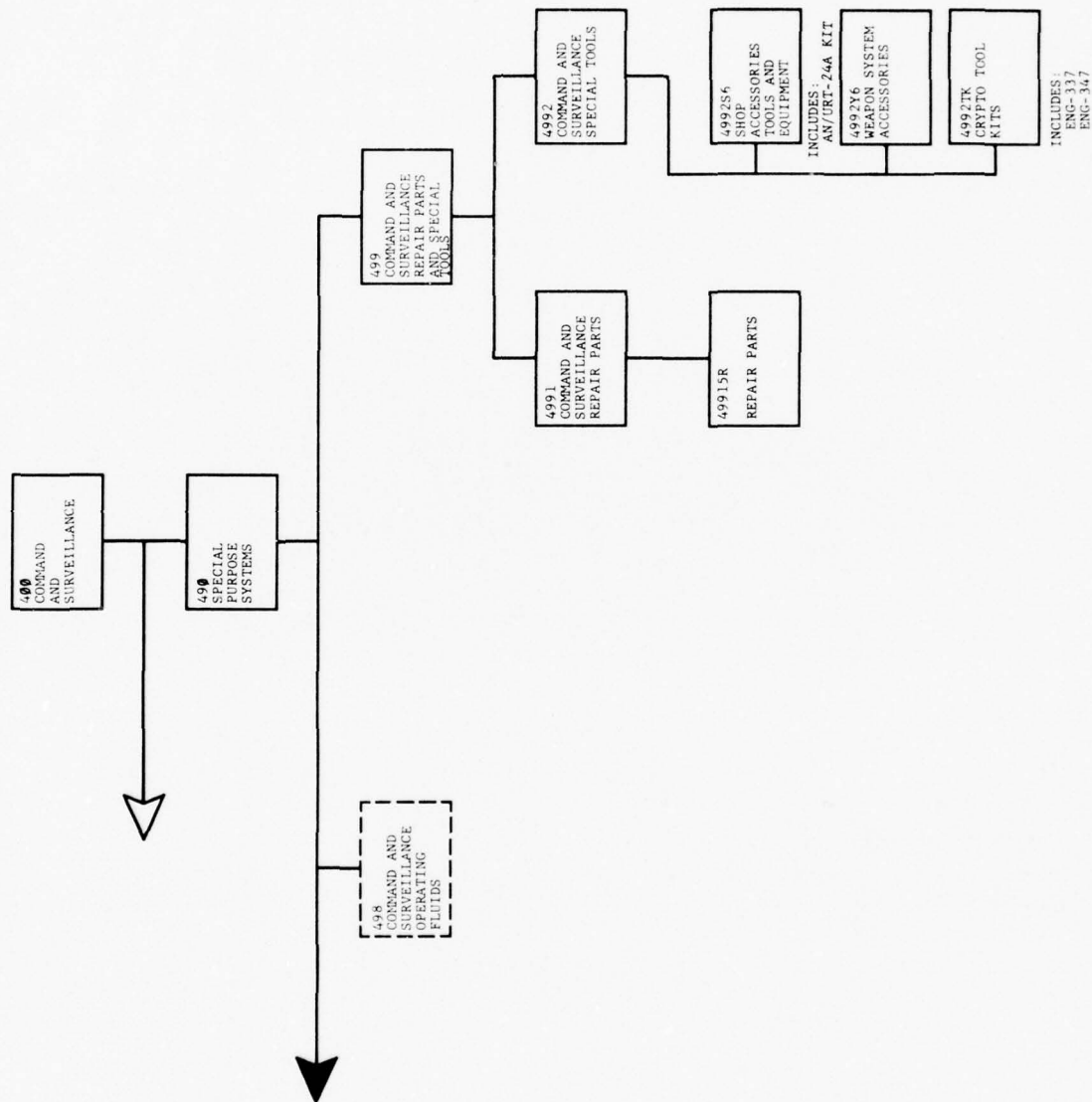




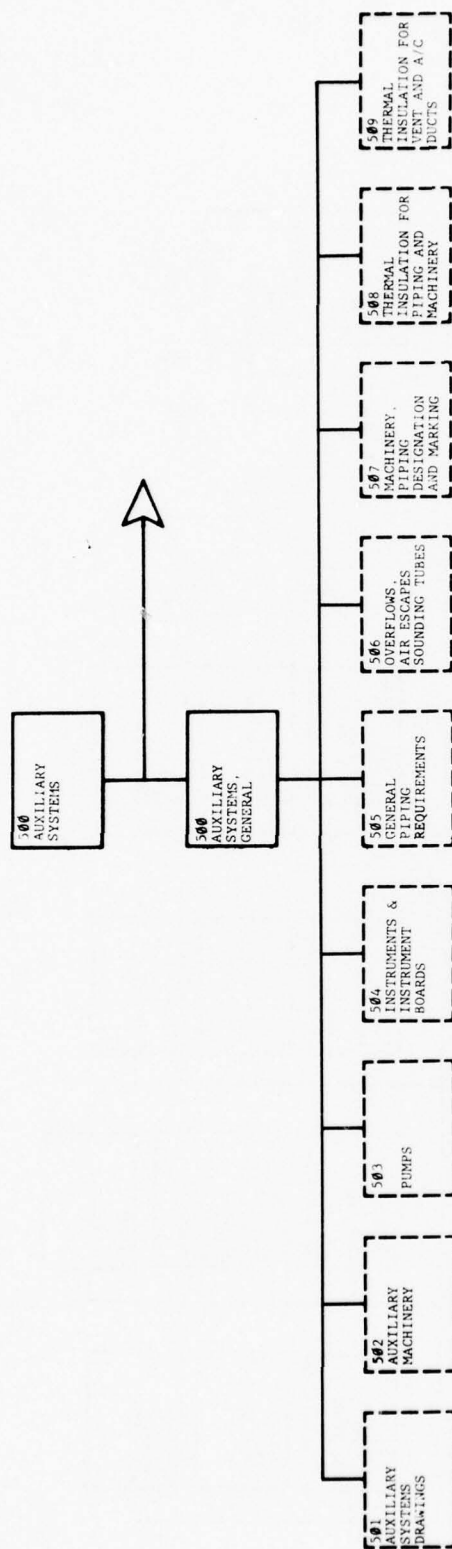




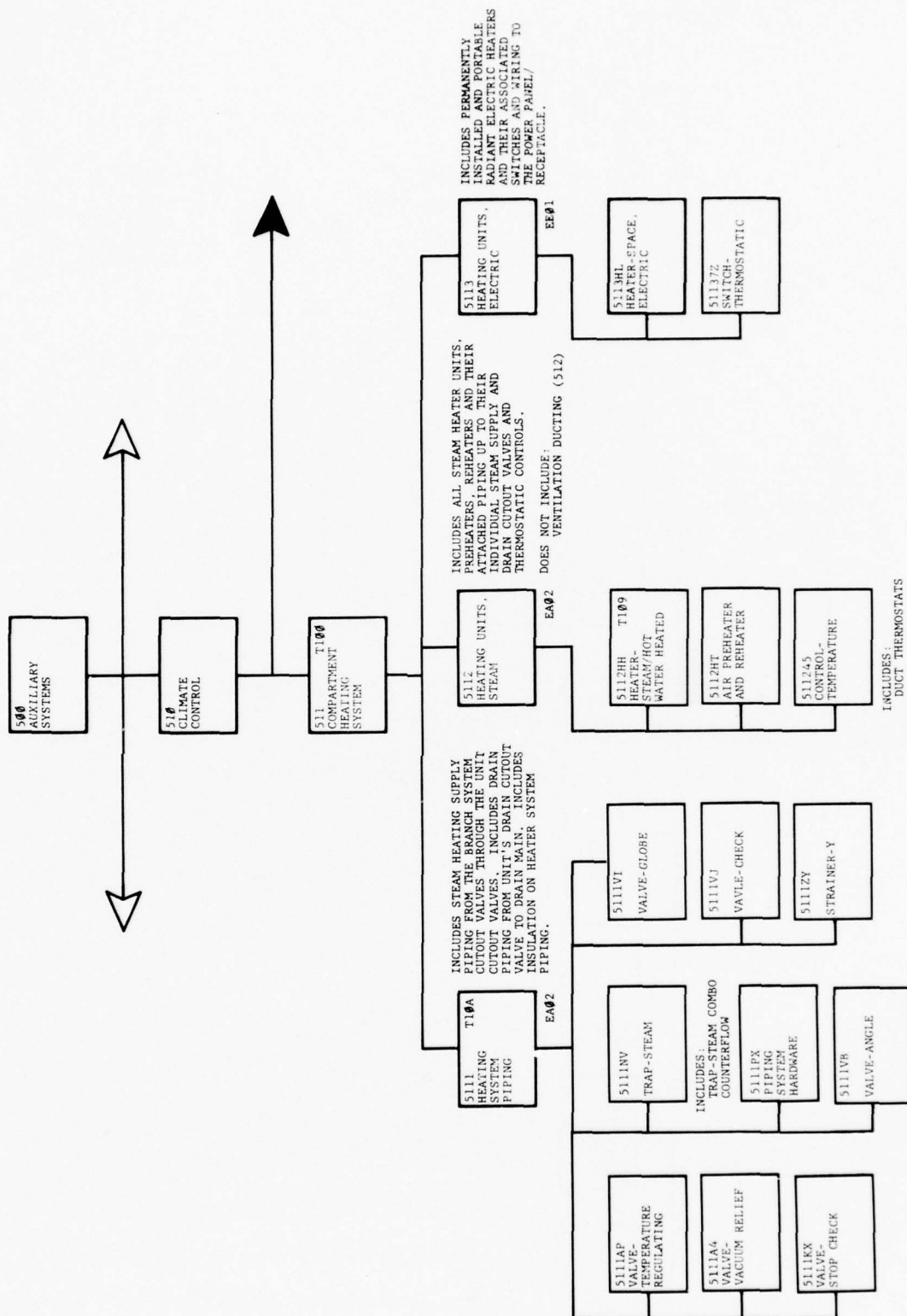
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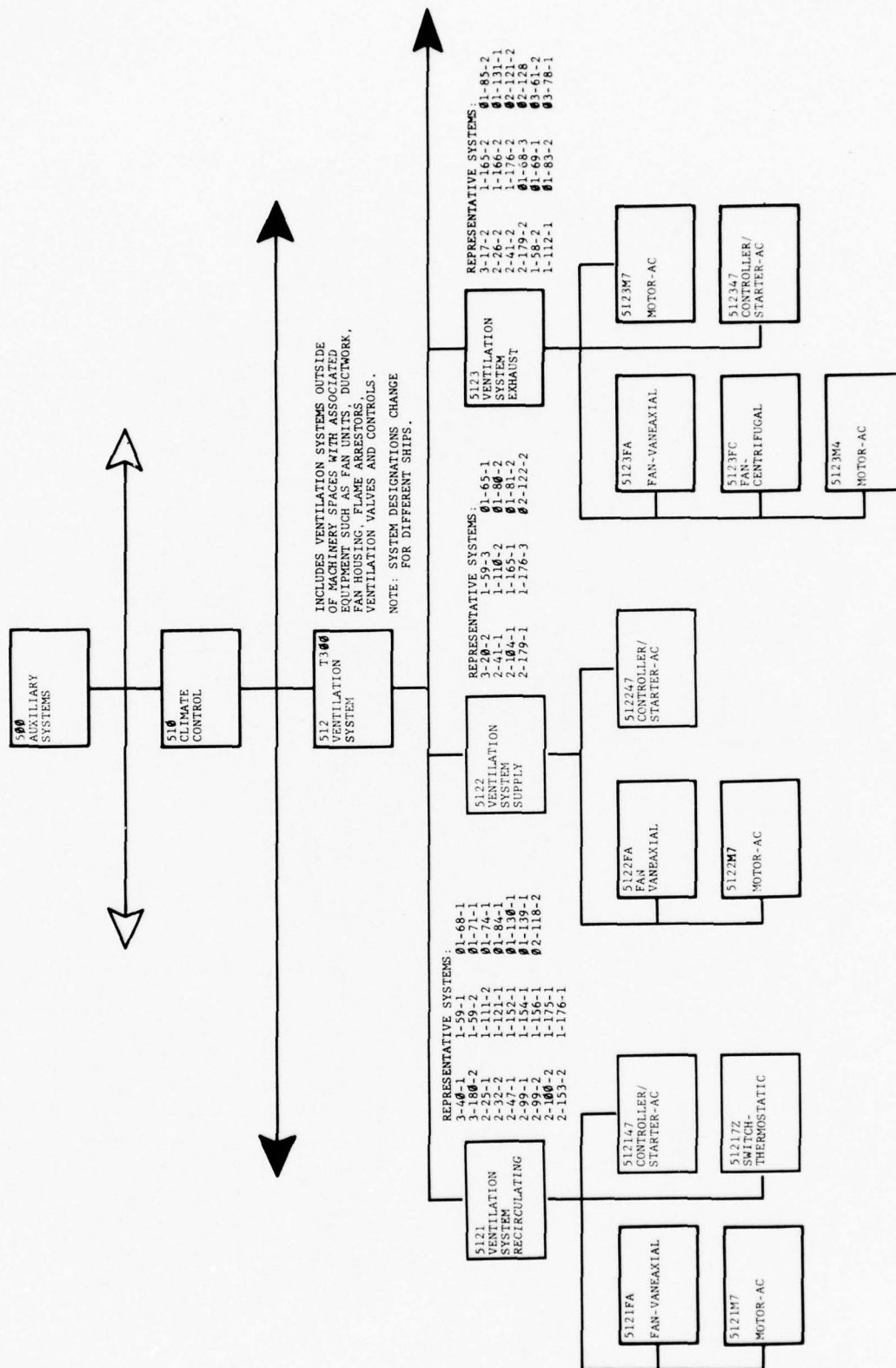


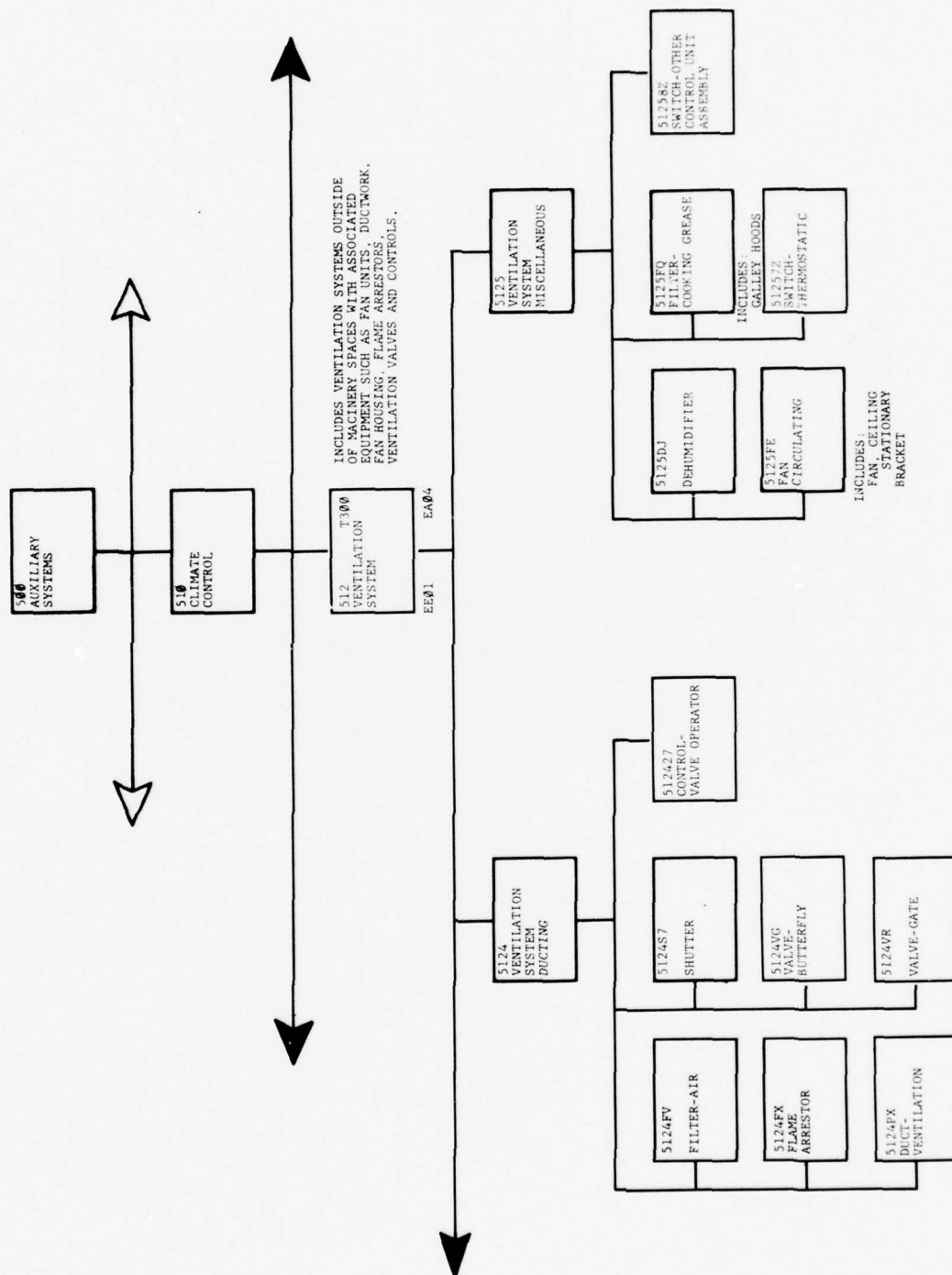
DDG-2 CLASS  
PREPARED 10-26-76

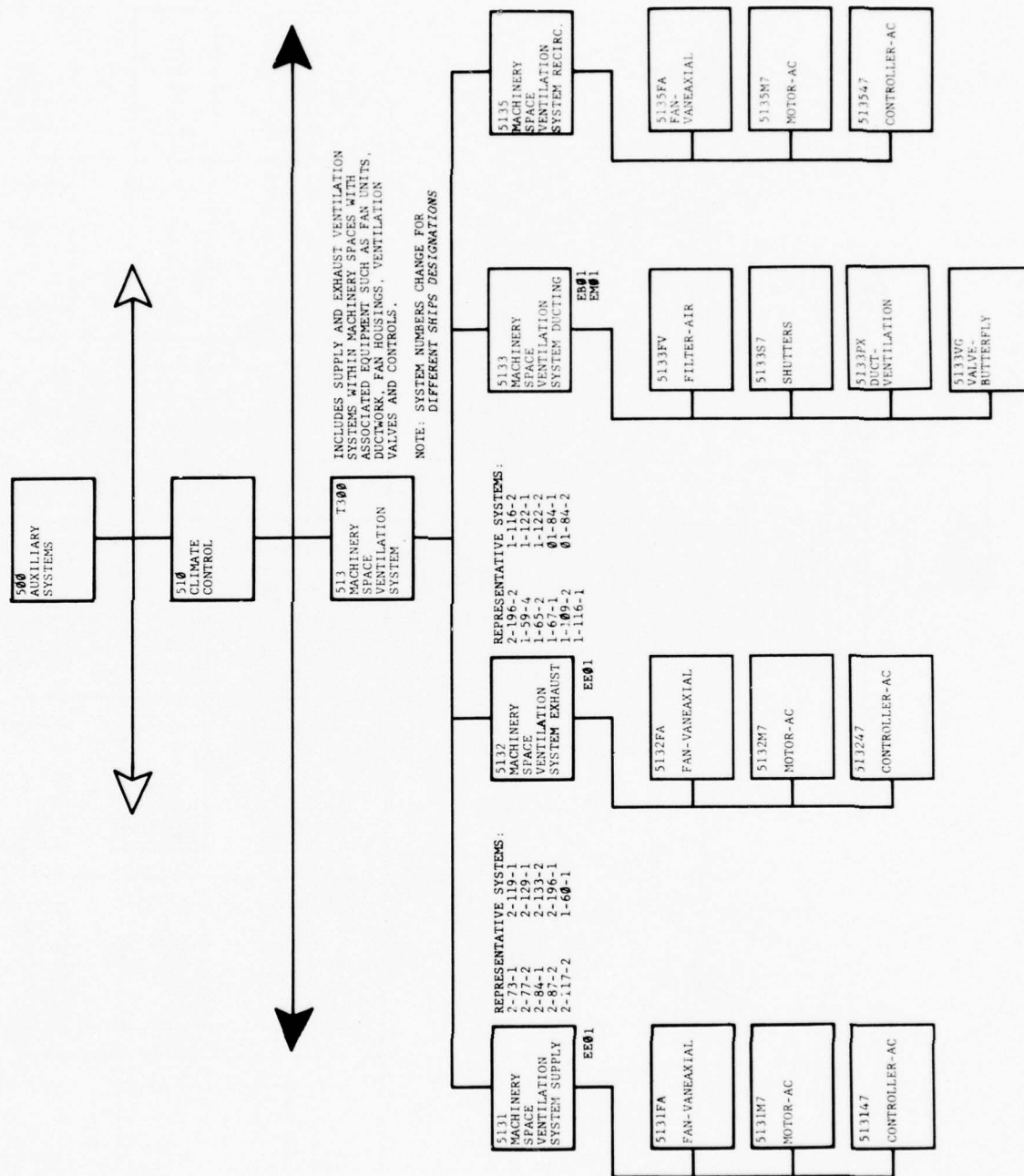


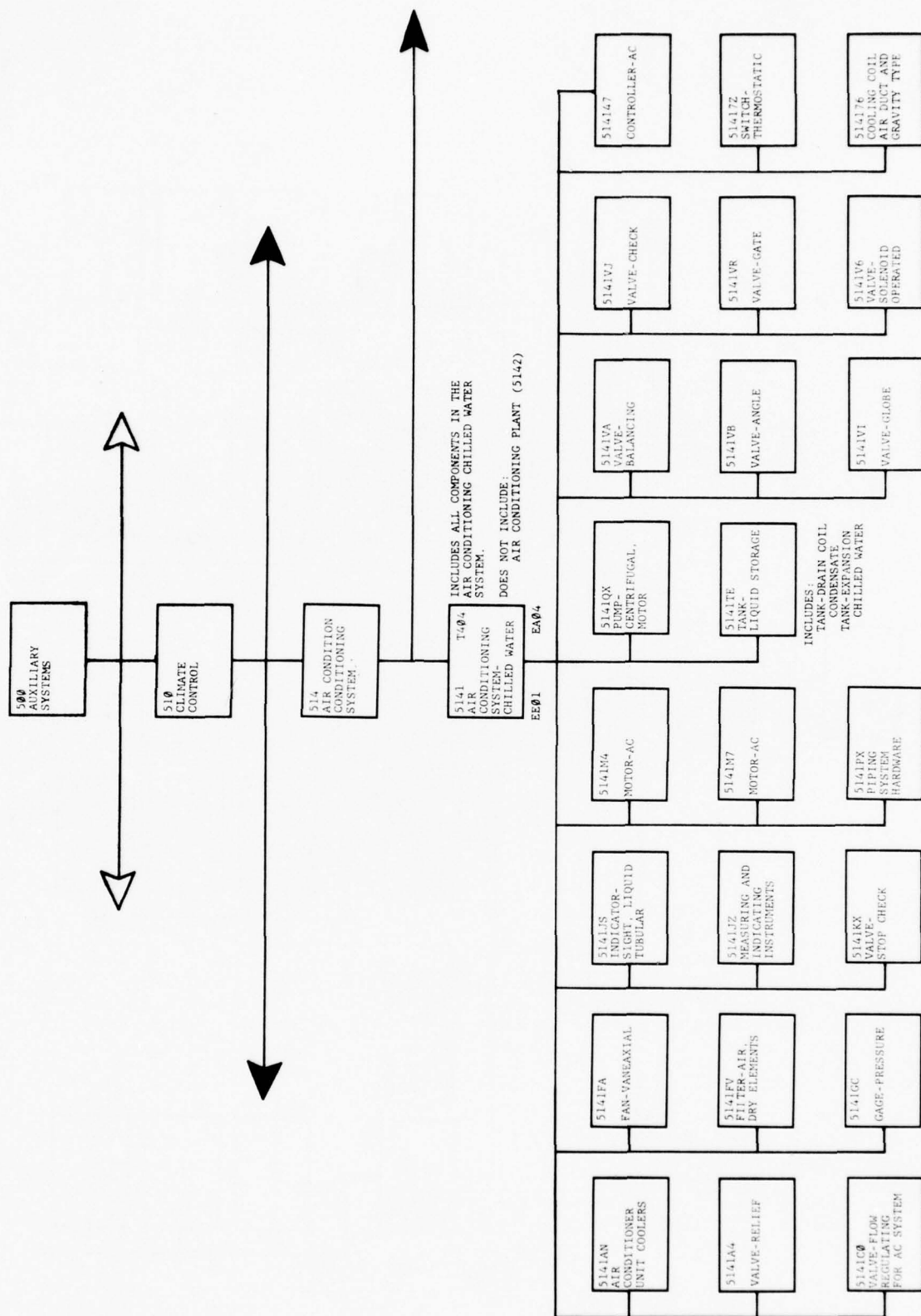




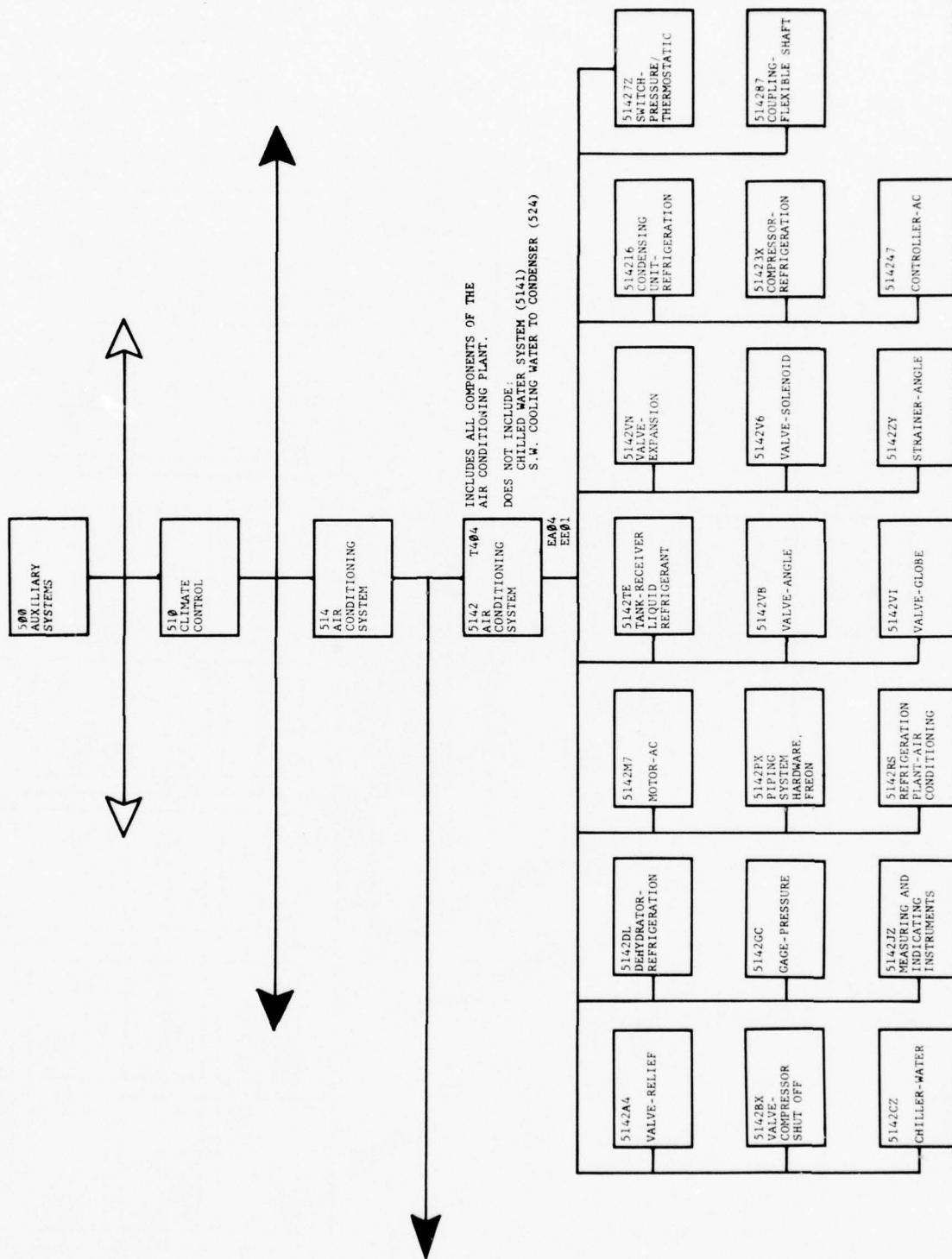


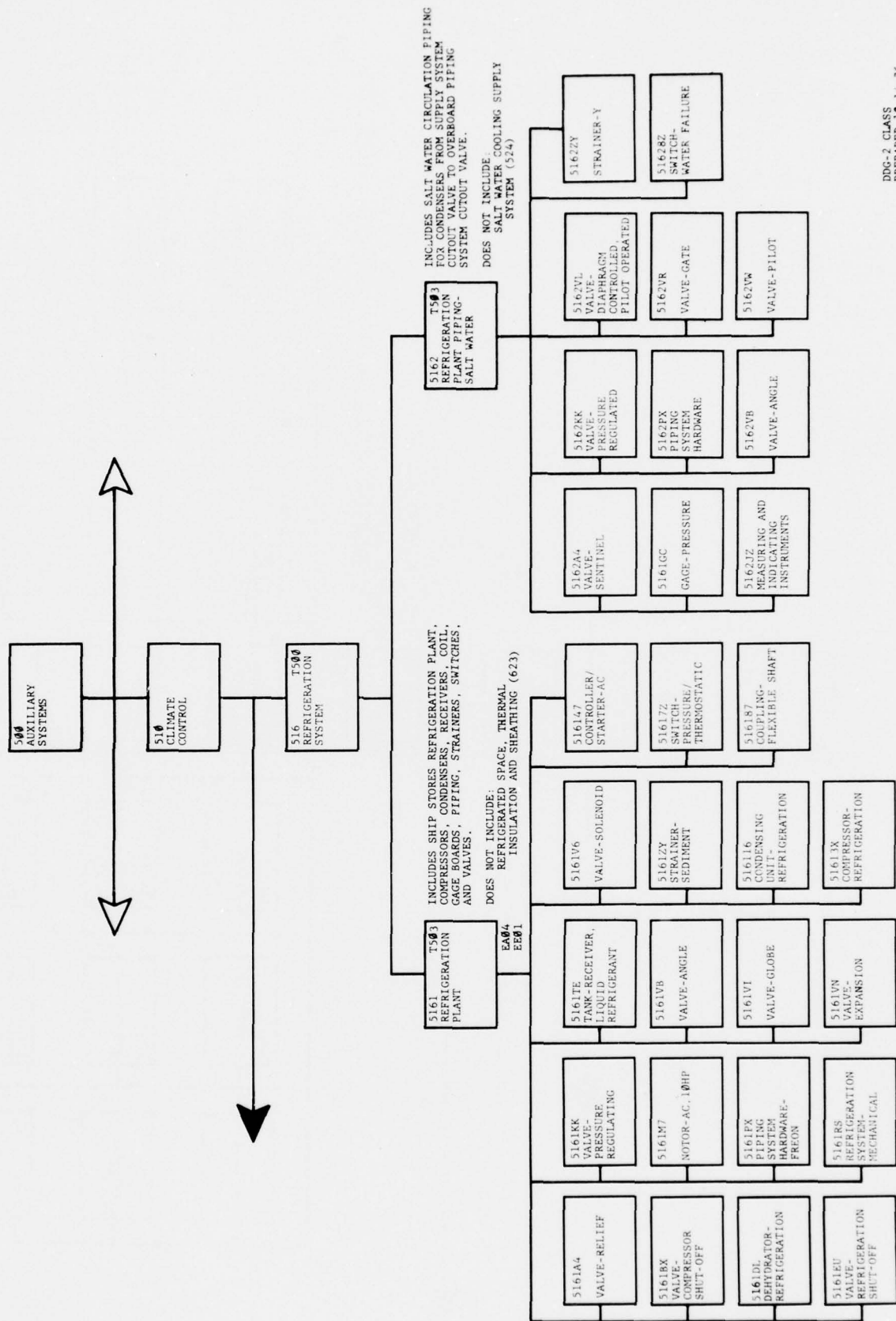




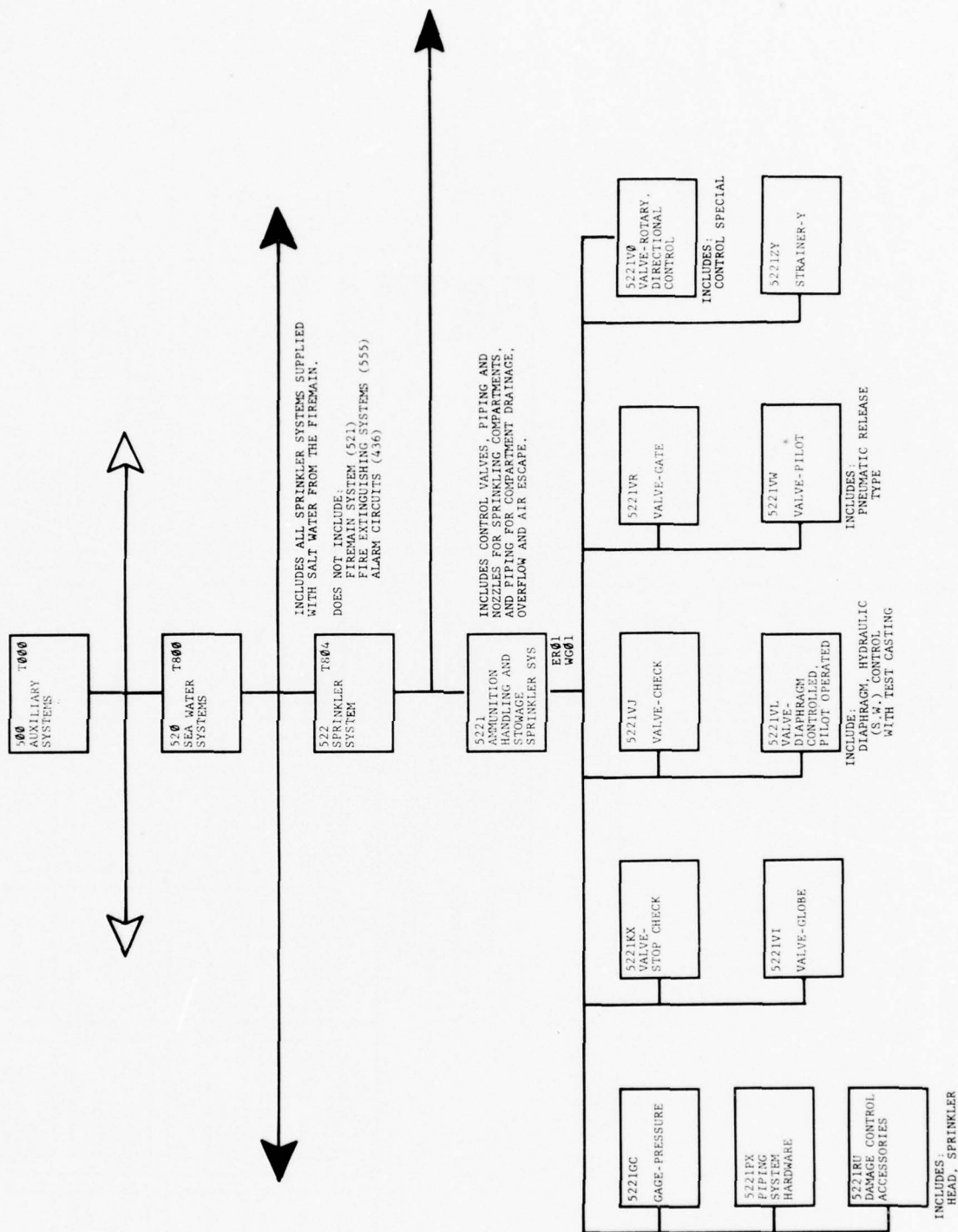






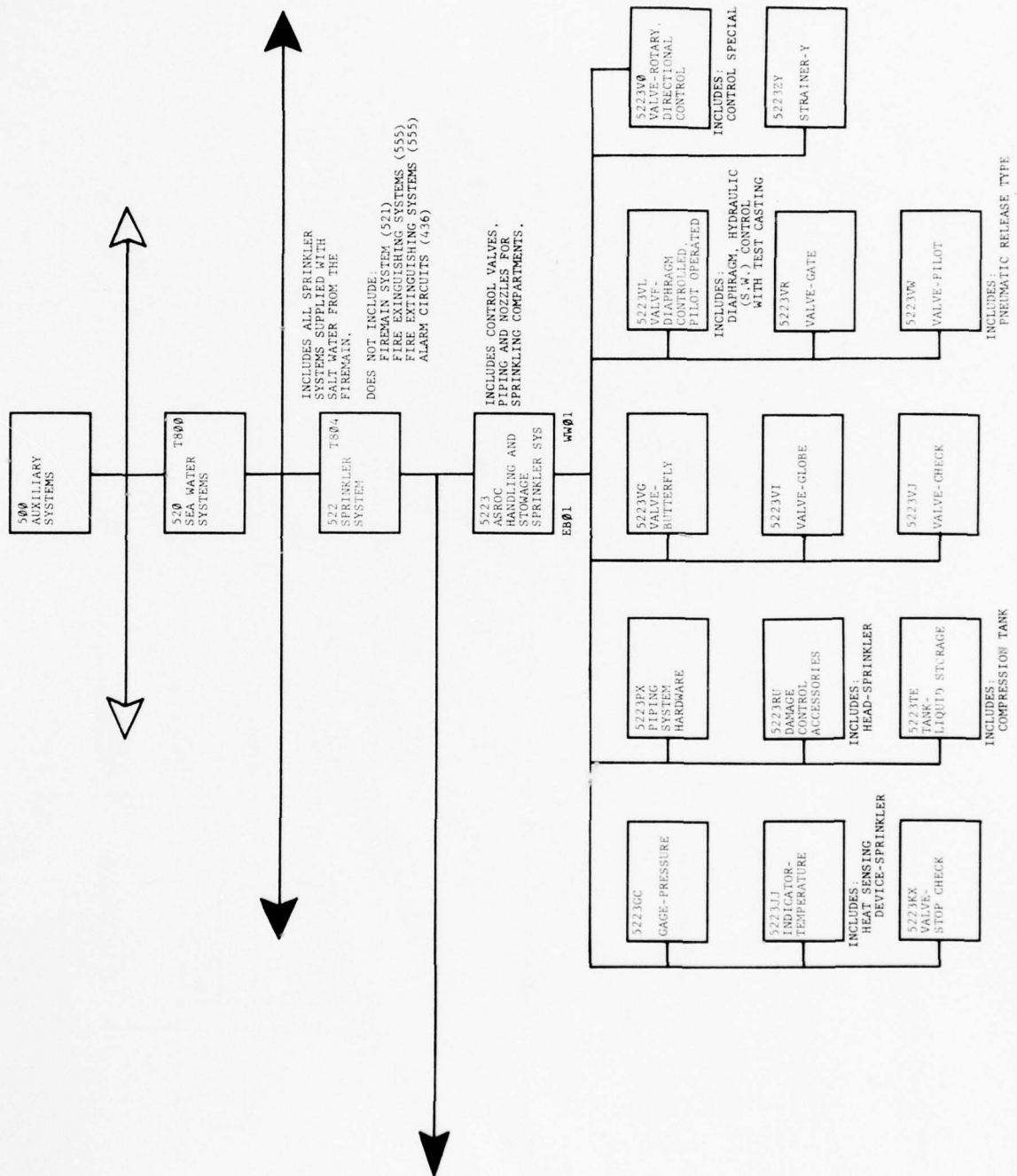


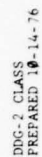


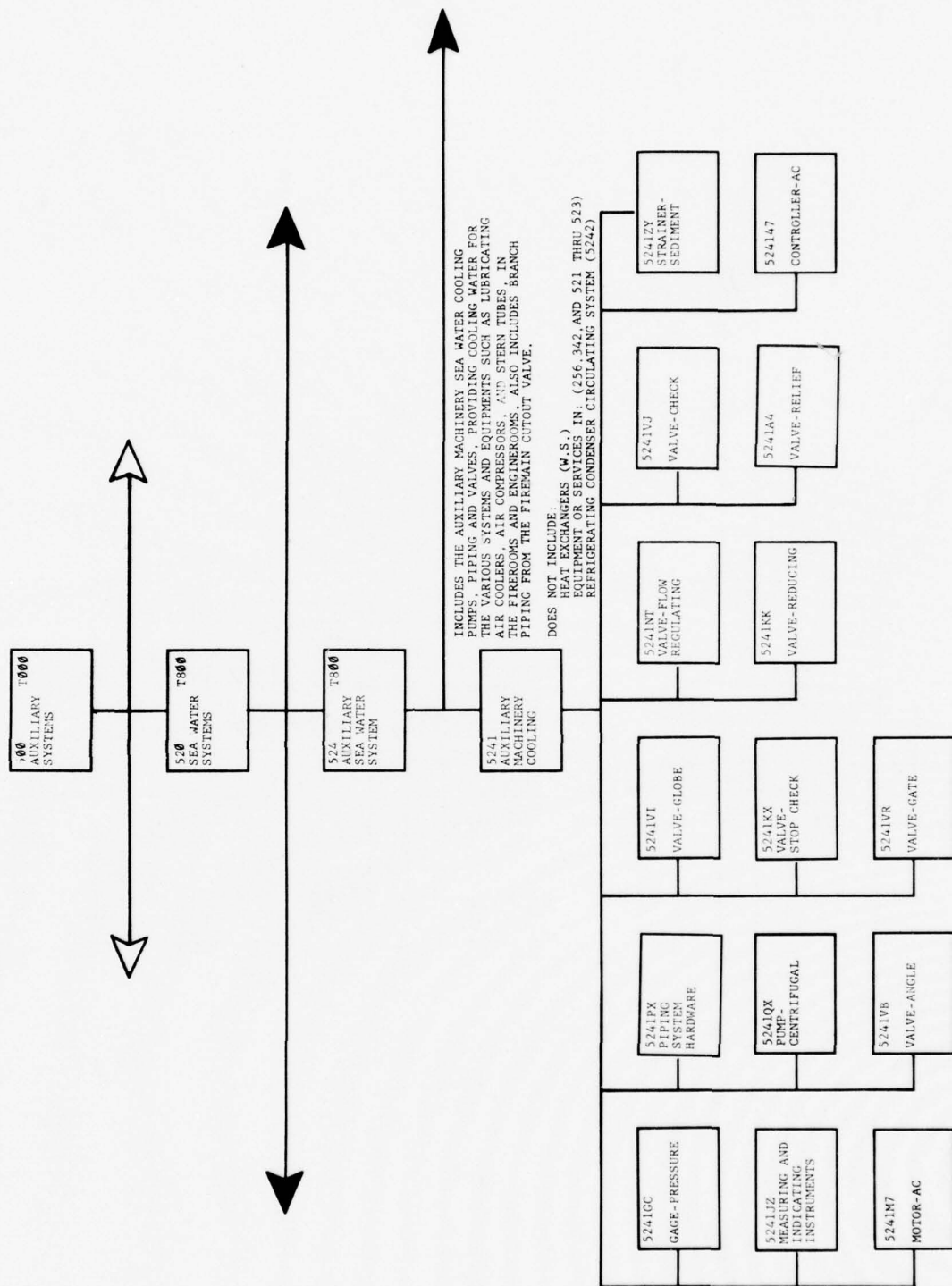


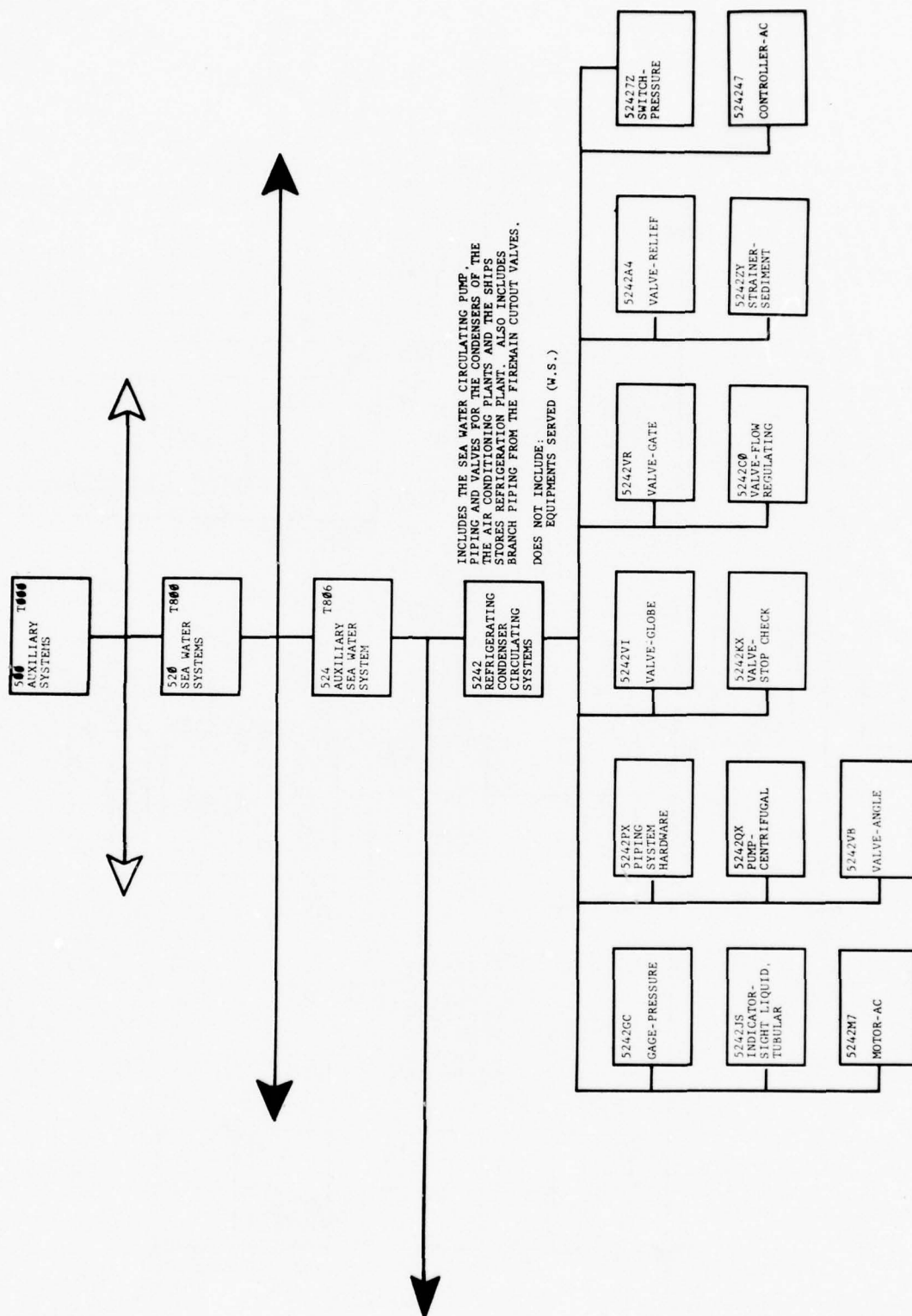


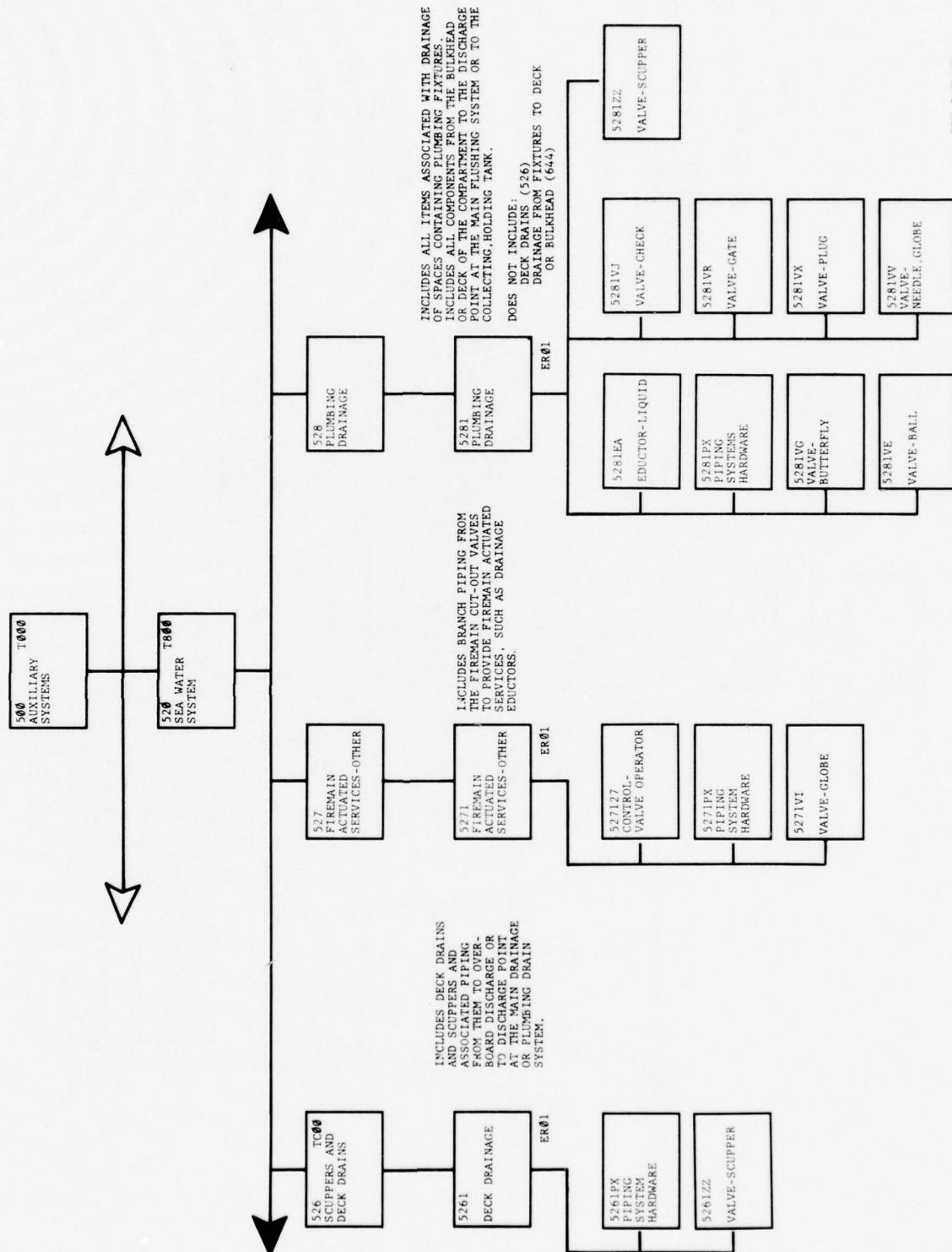




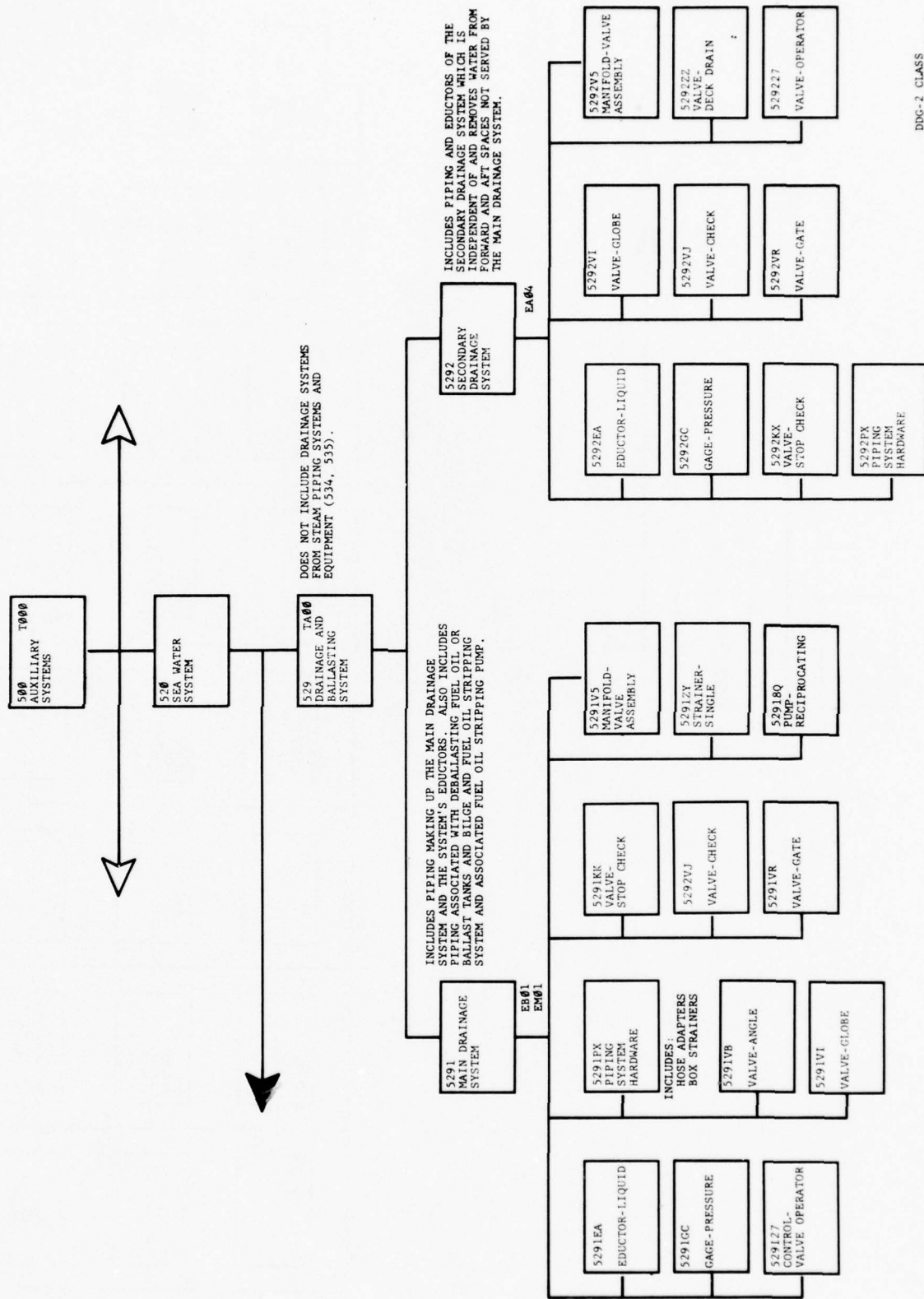


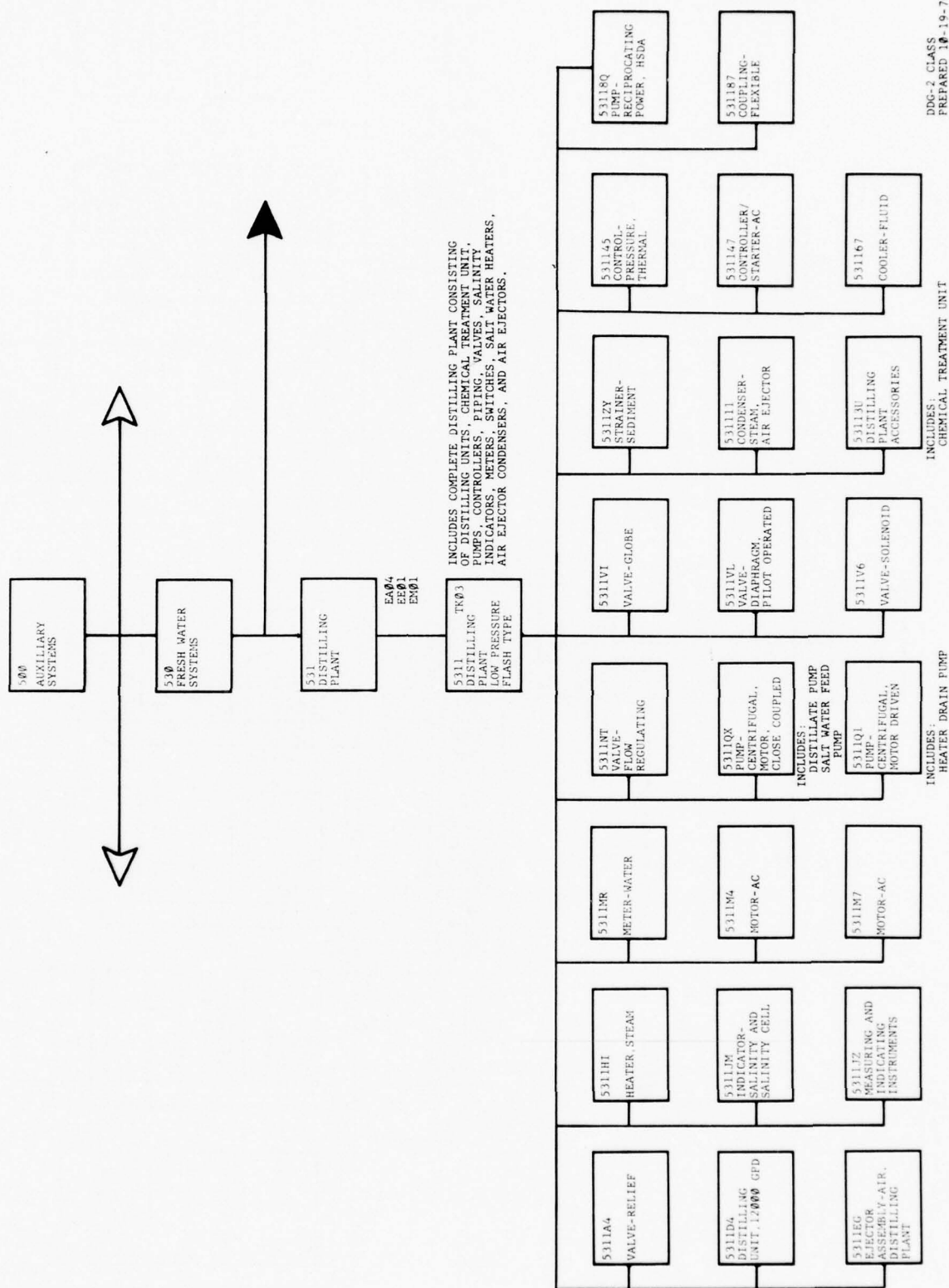




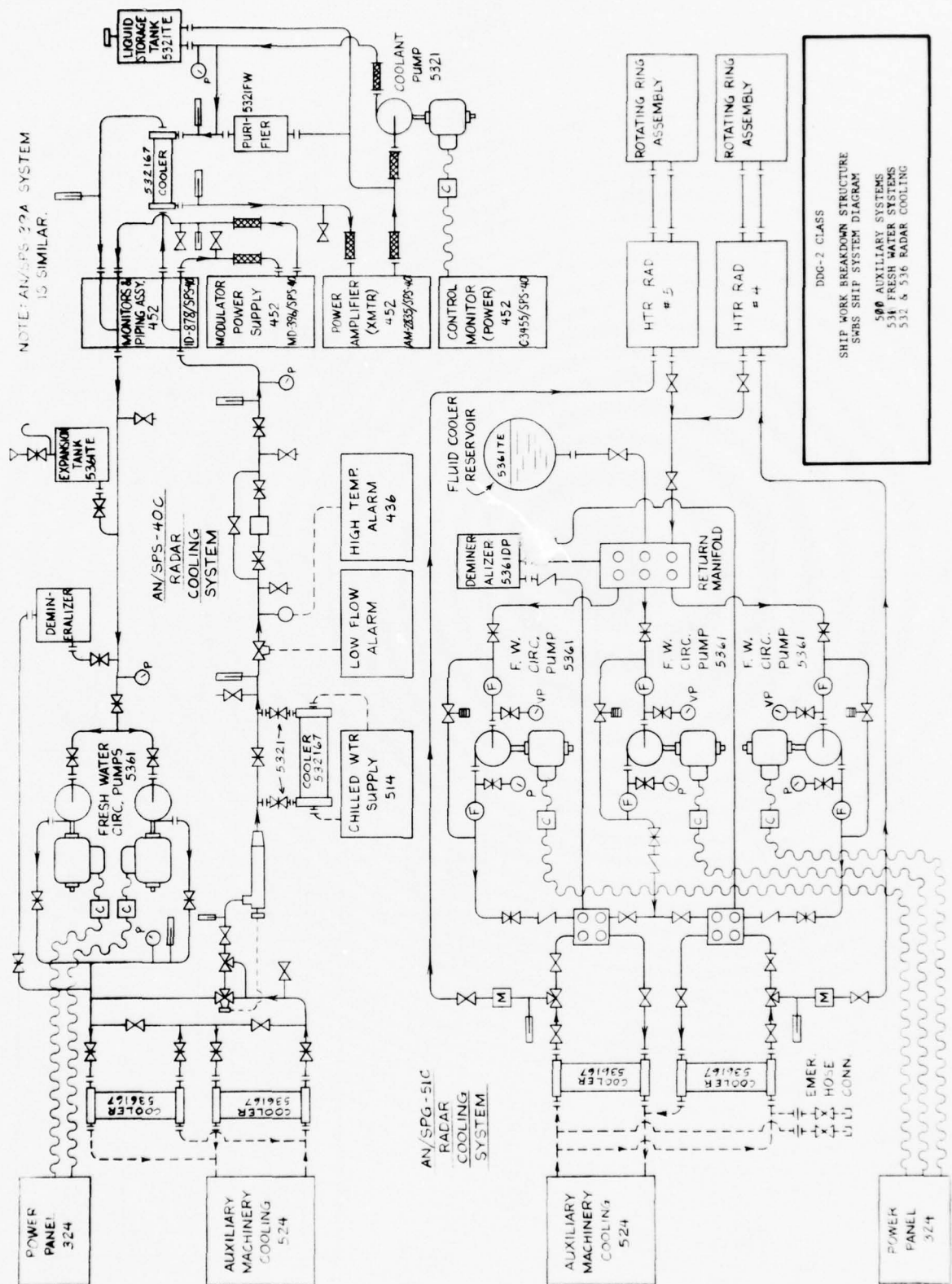


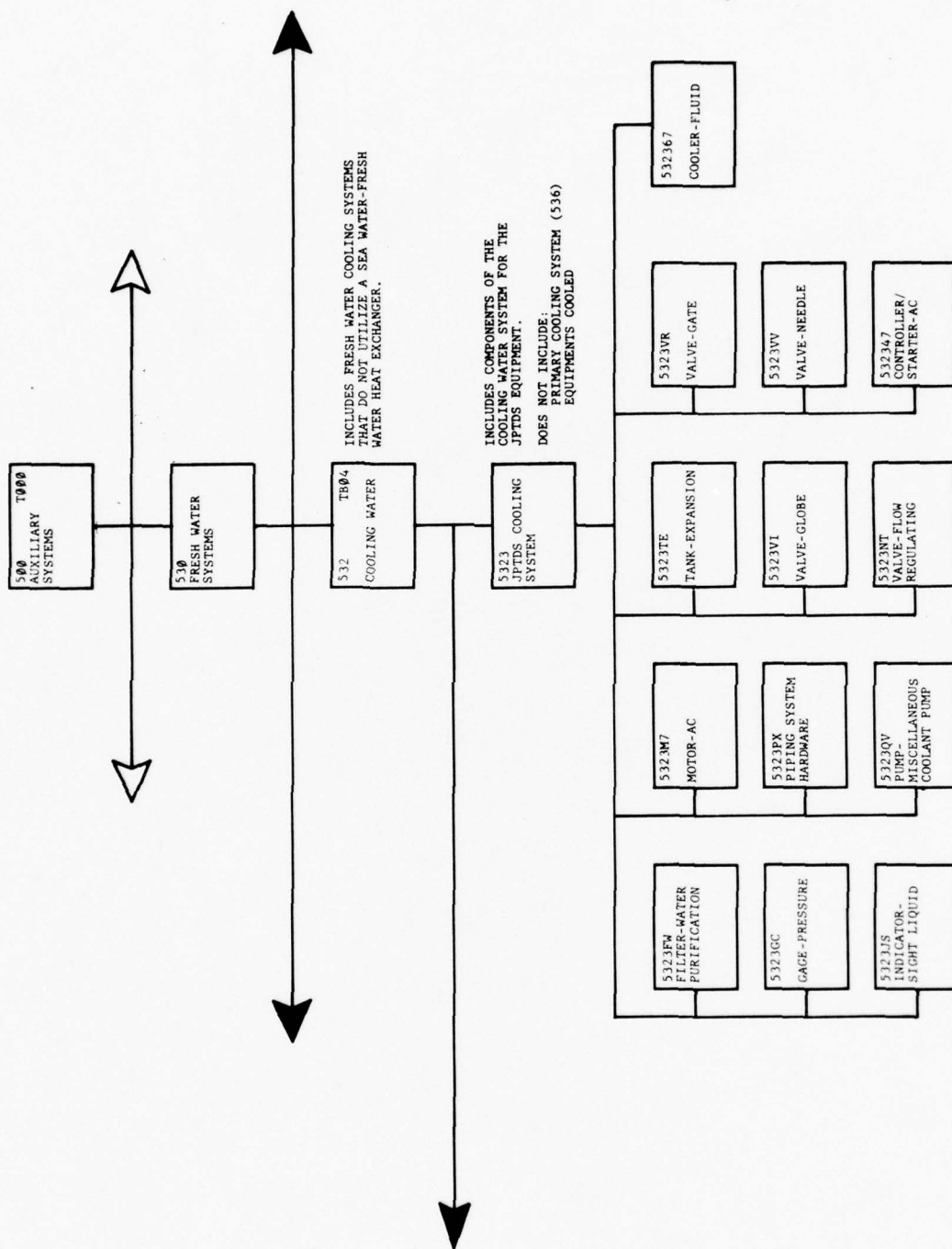




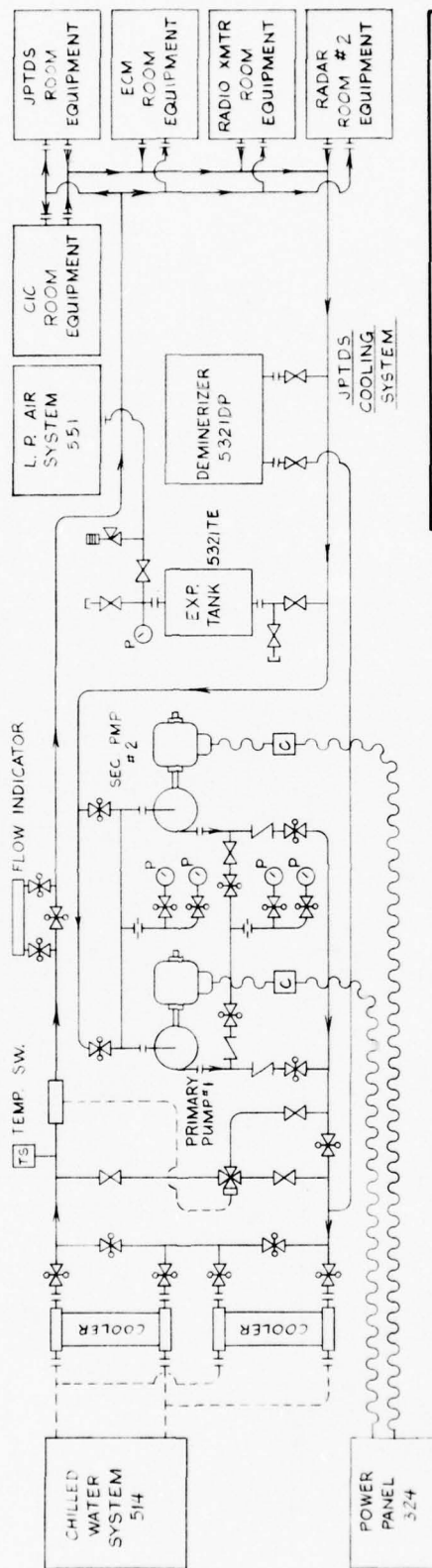




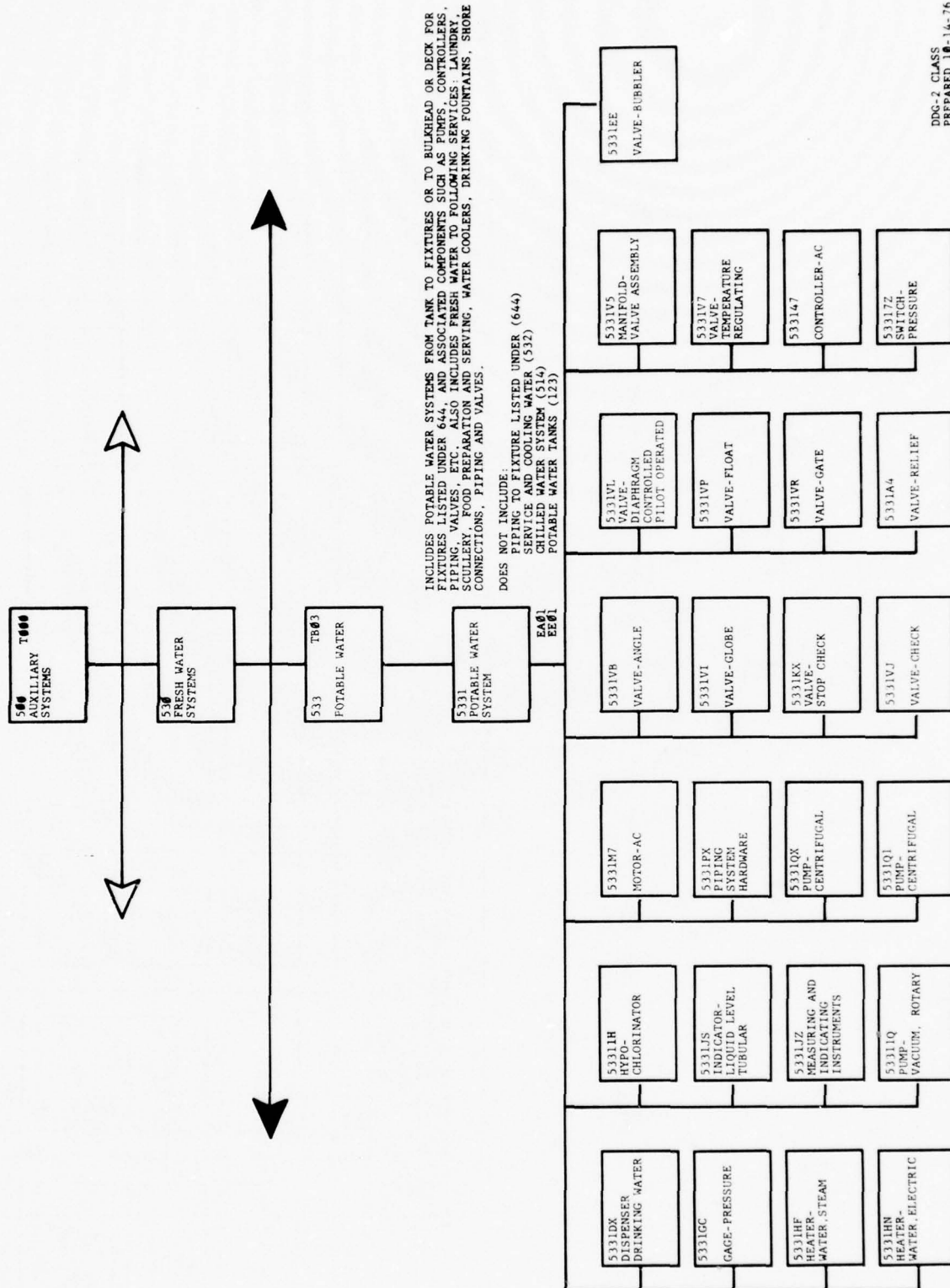






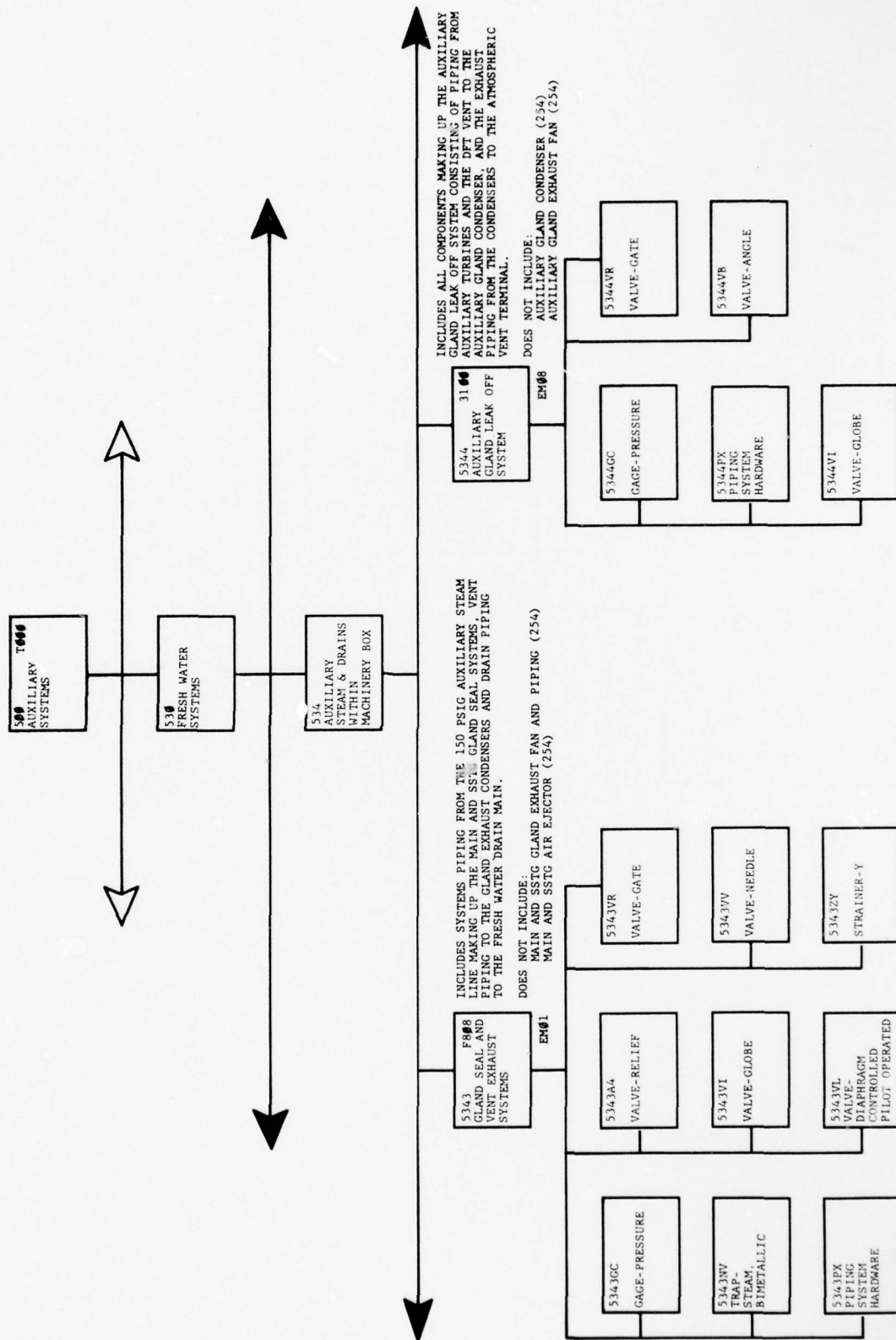


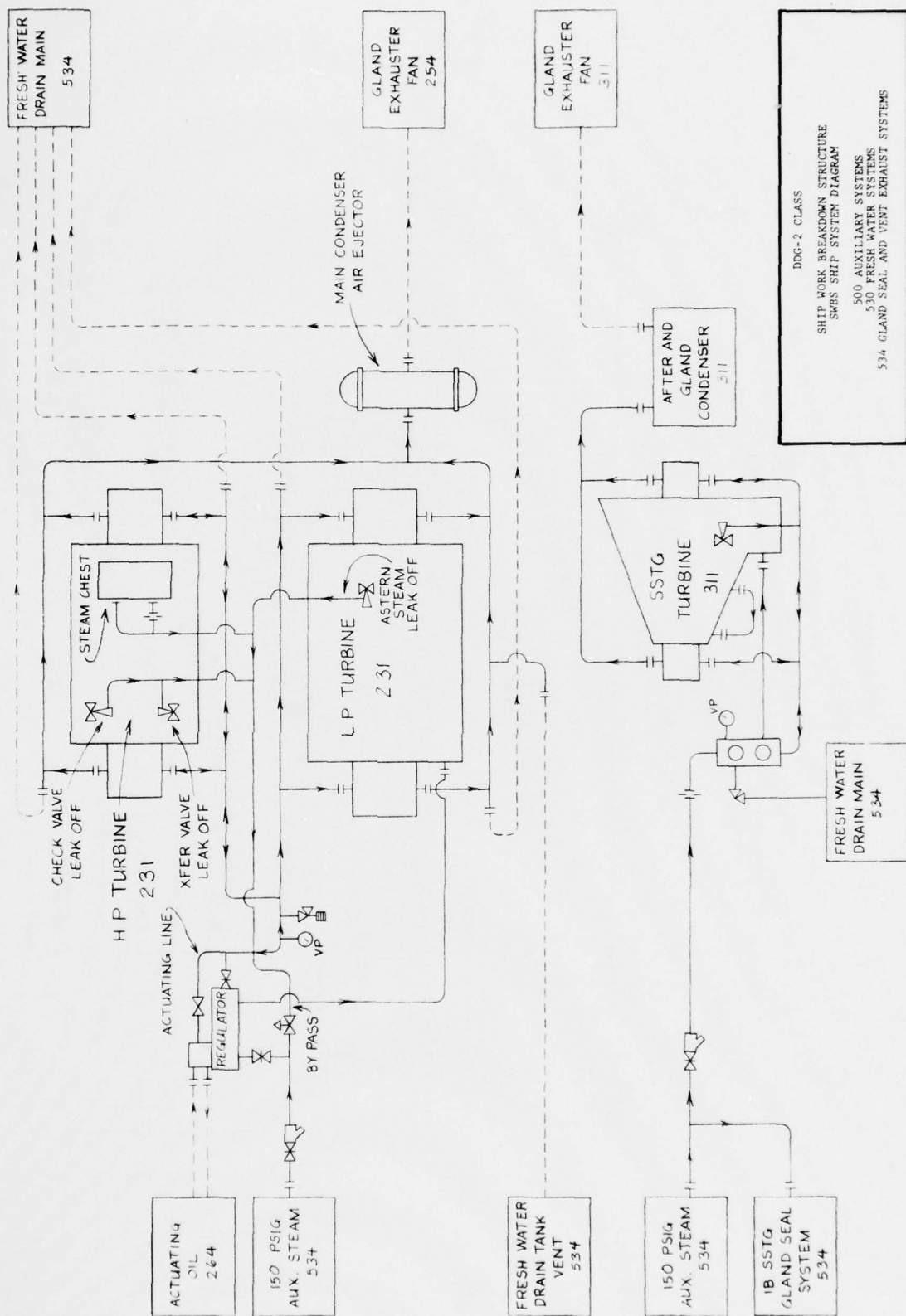
DDG-2 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SWBS SHIP SYSTEM DIAGRAM  
500 AUXILIARY SYSTEMS  
530 FRESH WATER SYSTEMS  
532 JPTDS COOLING



DDG-2 CLASS  
PREPARED 10-14-76

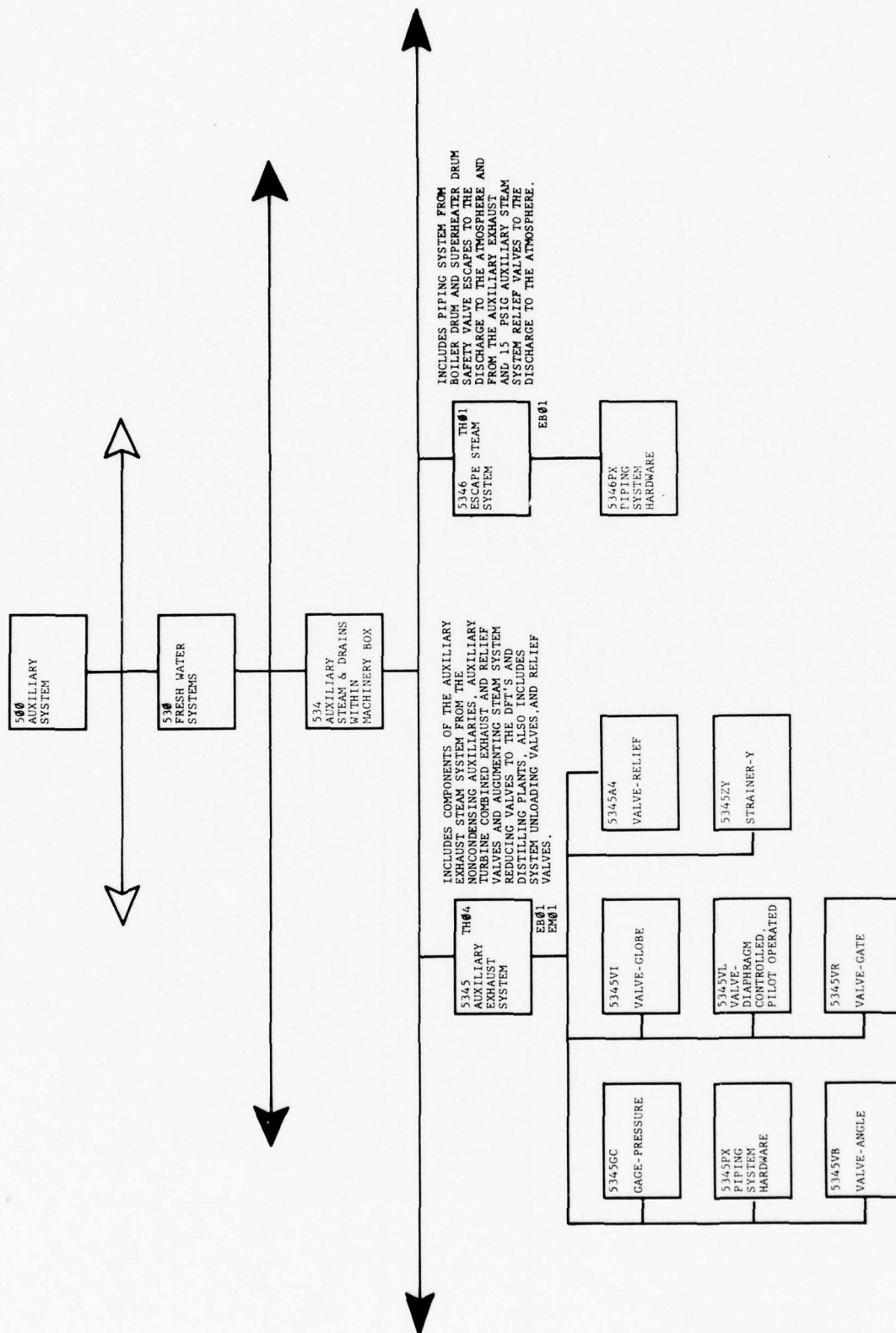


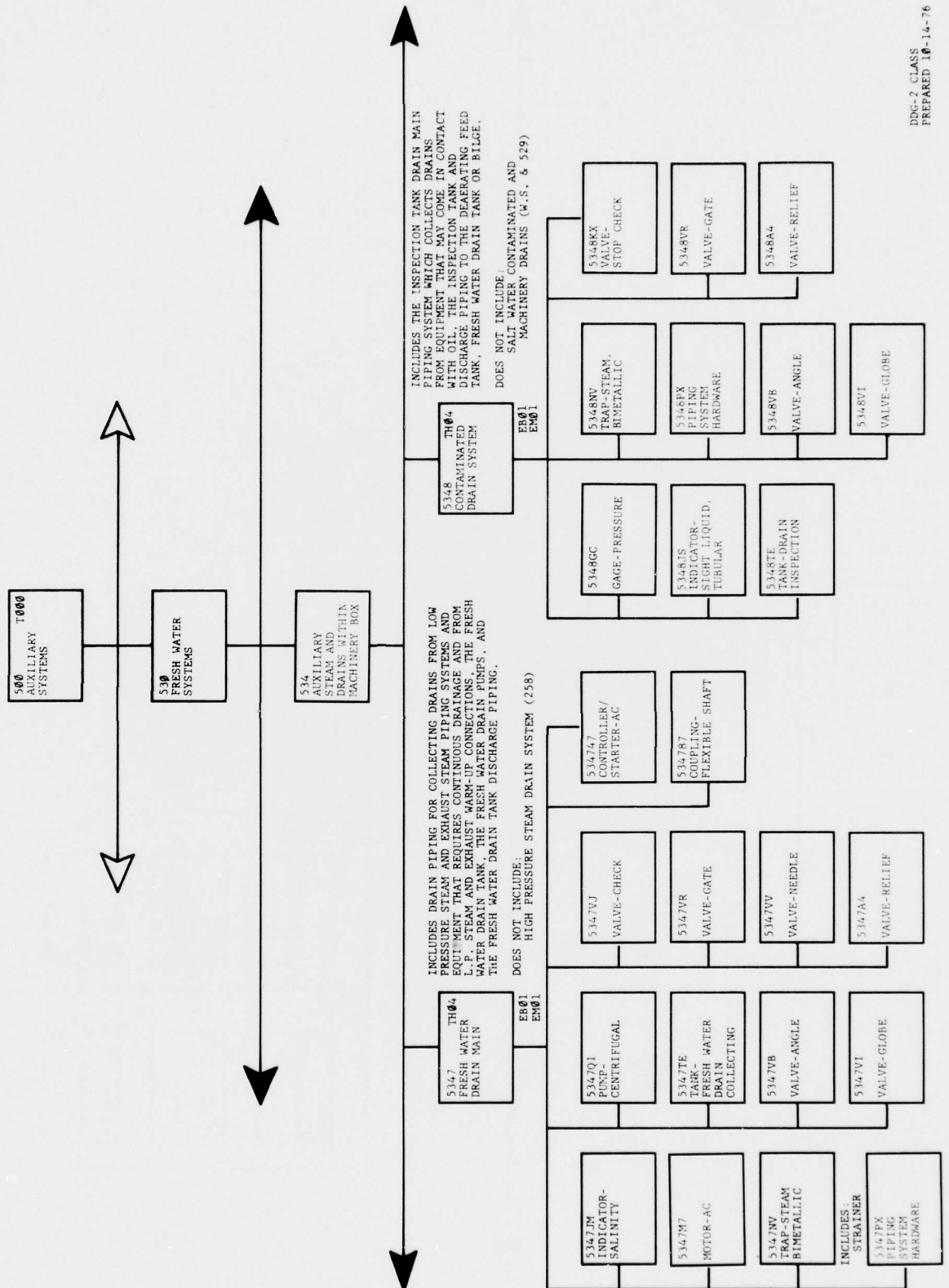


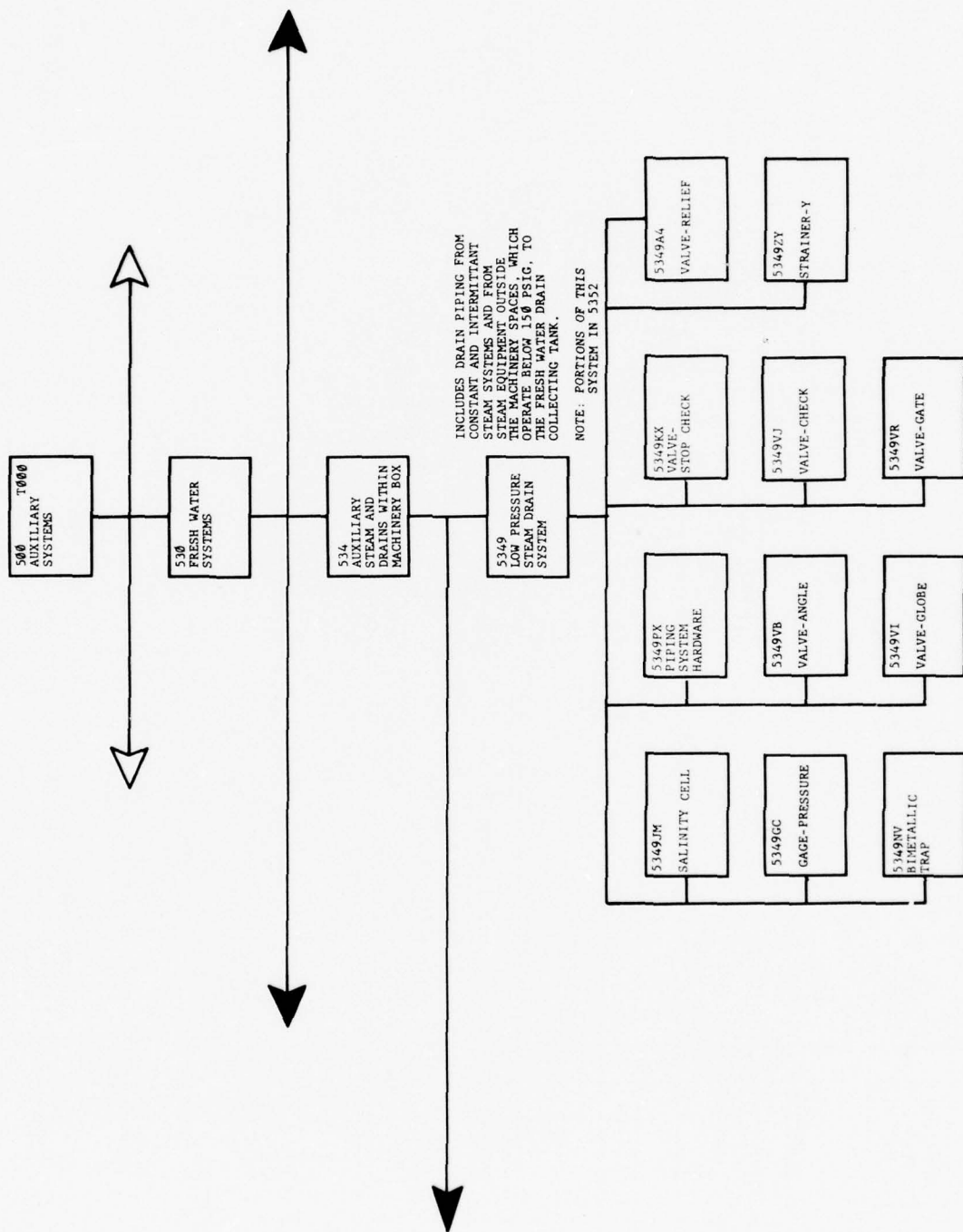


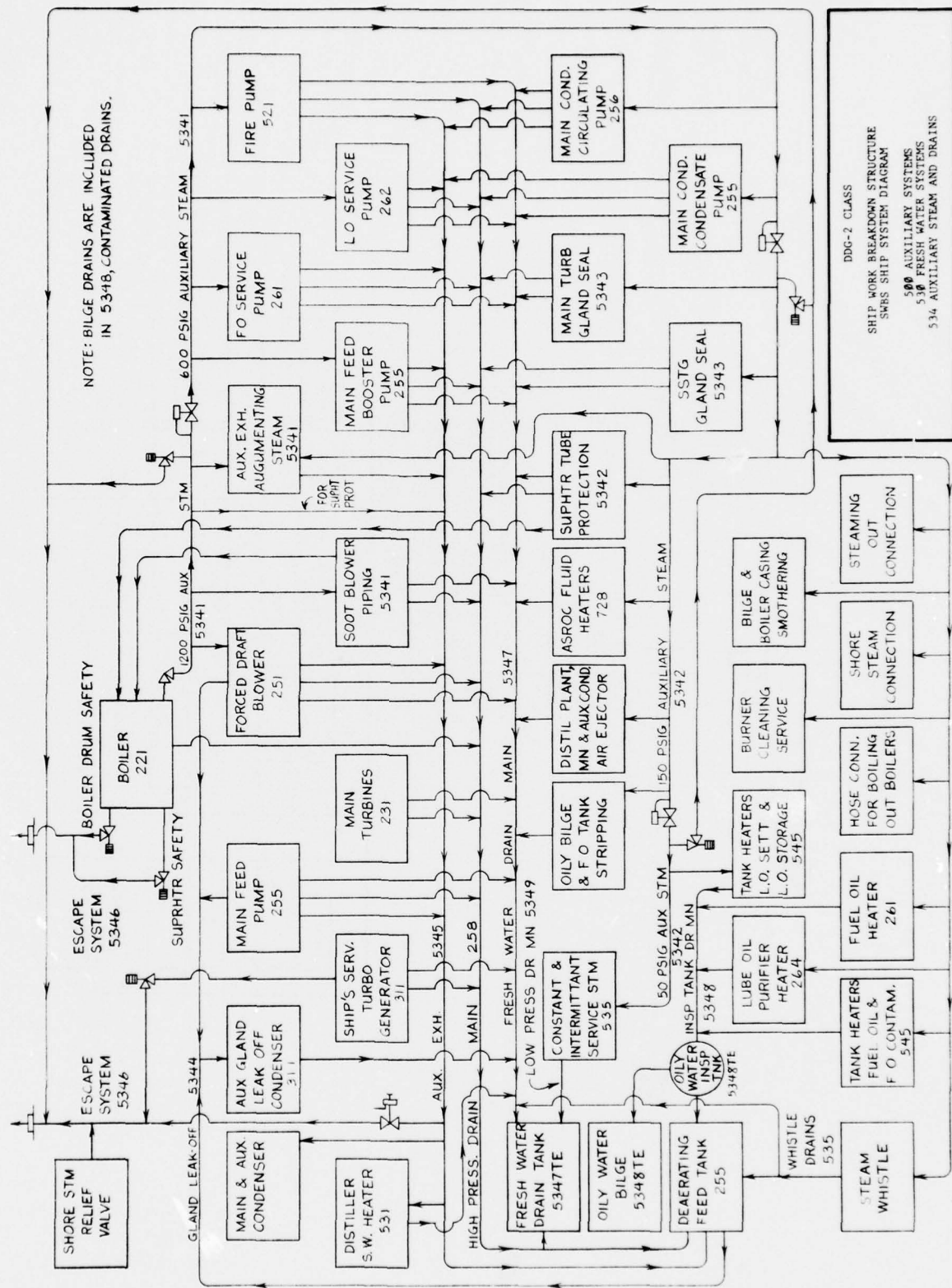
DDG-2 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SWBS SHIP SYSTEM DIAGRAM  
500 AUXILIARY SYSTEMS  
530 FRESH WATER SYSTEMS  
534 GLAND SEAL AND VENT EXHAUST SYSTEMS

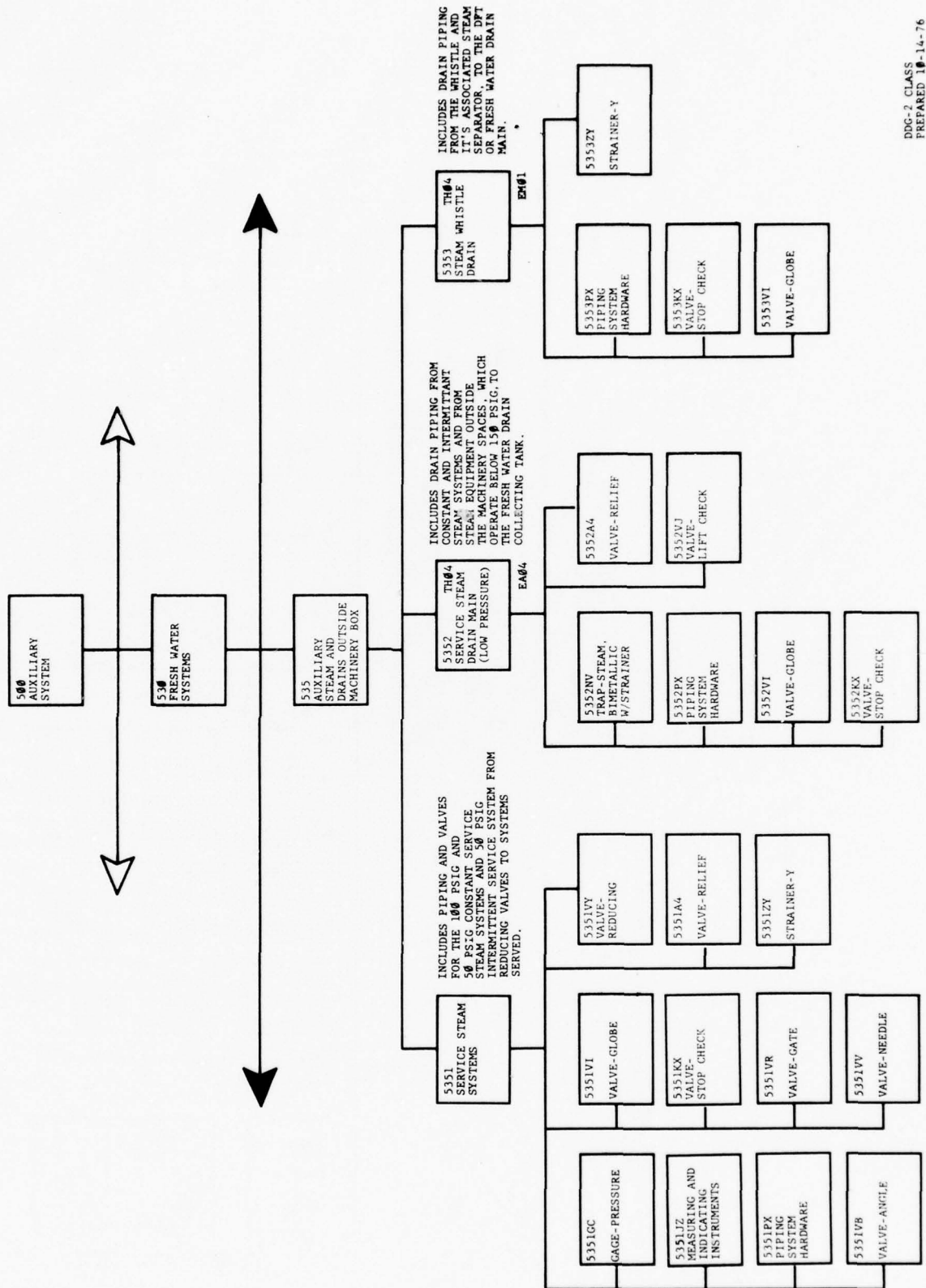






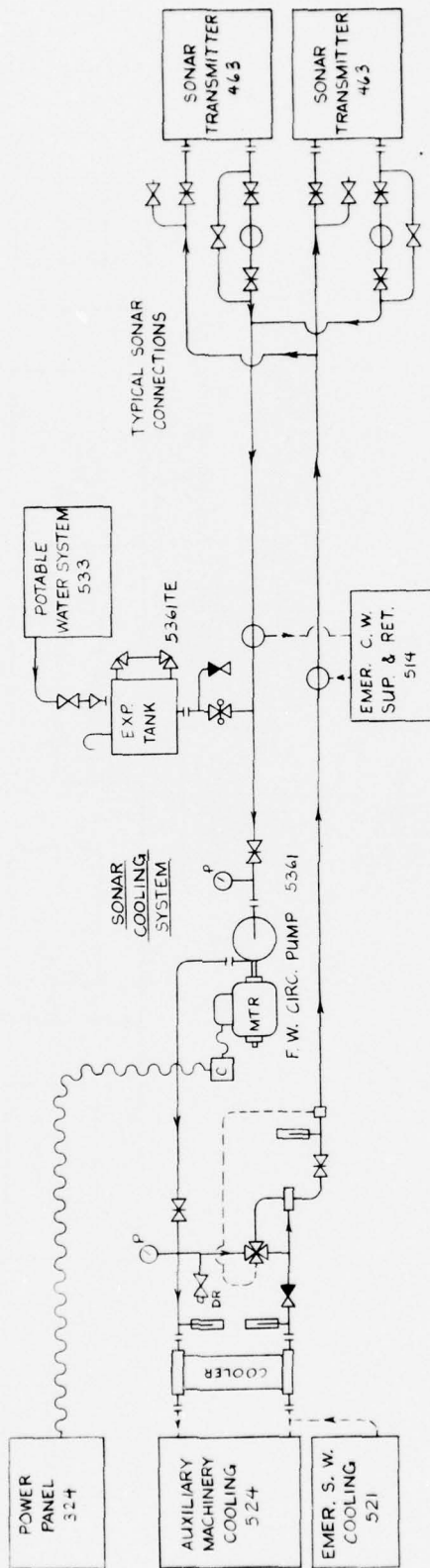






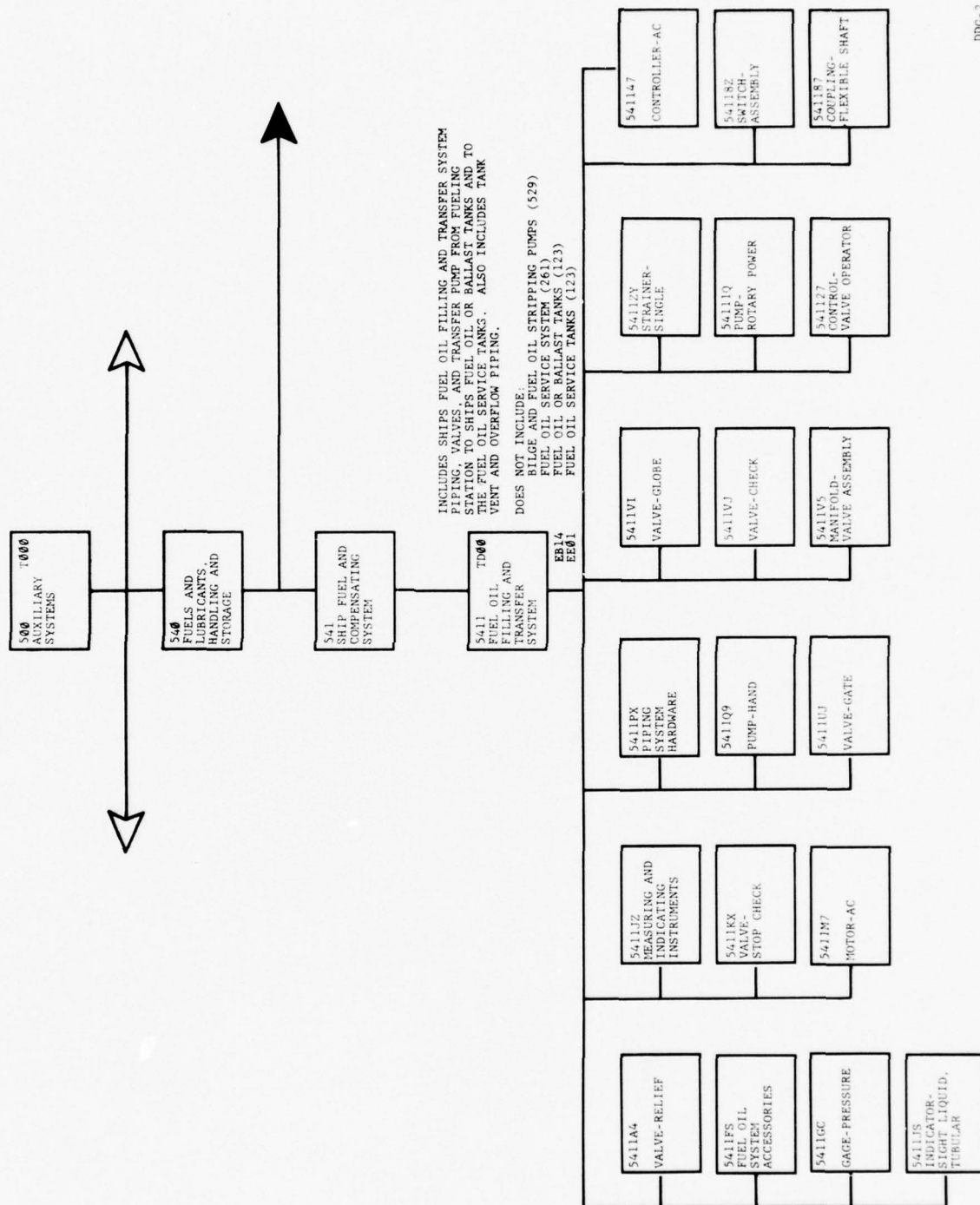


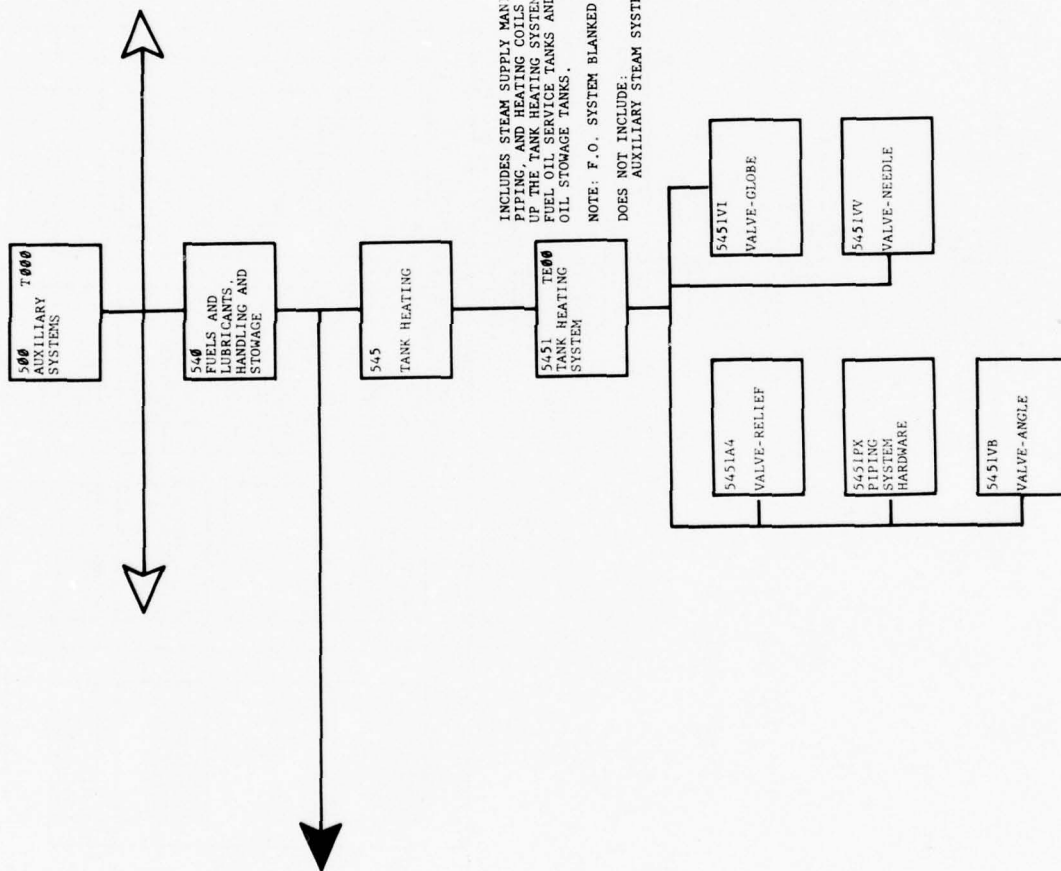




TYPICAL SONAR  
CONNECTIONS

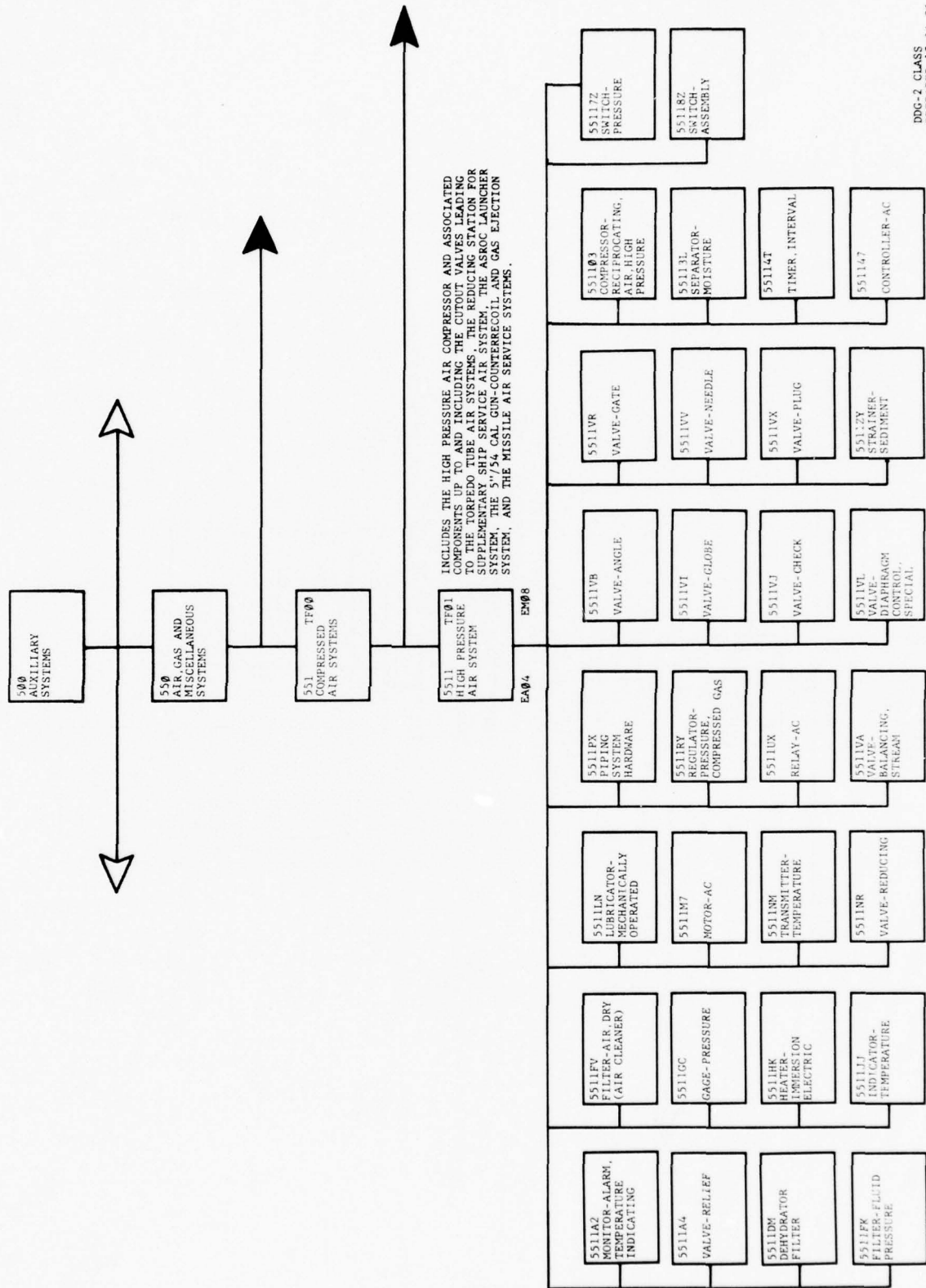
DDG-2 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SWBS SHIP SYSTEM DIAGRAM  
500 AUXILIARY SYSTEMS  
530 FRESH WATER SYSTEMS  
536 SONAR COOLING





INCLUDES STEAM SUPPLY MANIFOLDS,  
PIPING, AND HEATING COILS MAKING  
UP THE TANK HEATING SYSTEM IN  
FUEL OIL SERVICE TANKS AND LUBE  
OIL STORAGE TANKS.

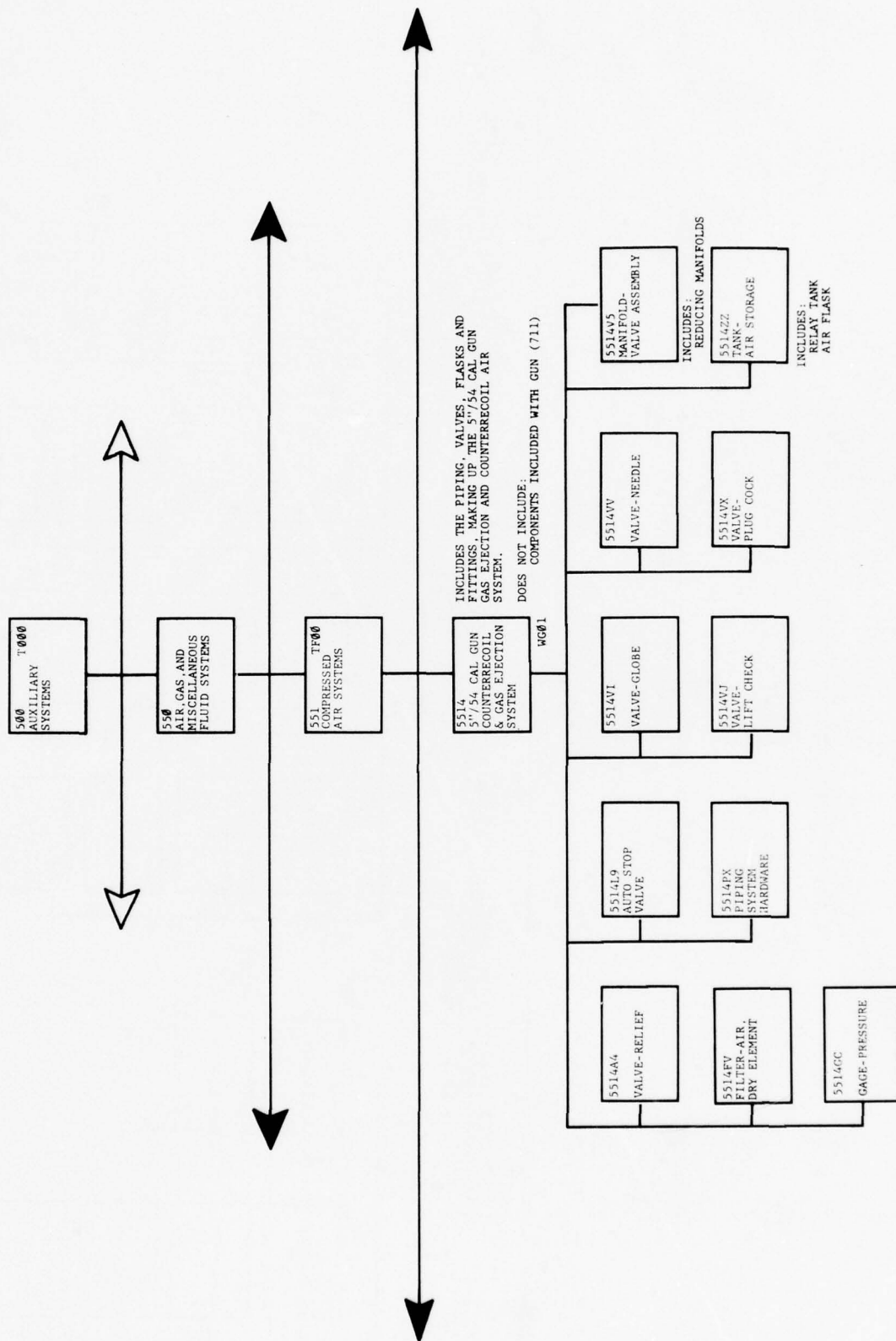
NOTE: F.O. SYSTEM BLANKED OFF IN NSD SHIPS.  
DOES NOT INCLUDE:  
AUXILIARY STEAM SYSTEM PIPING (534, 535)

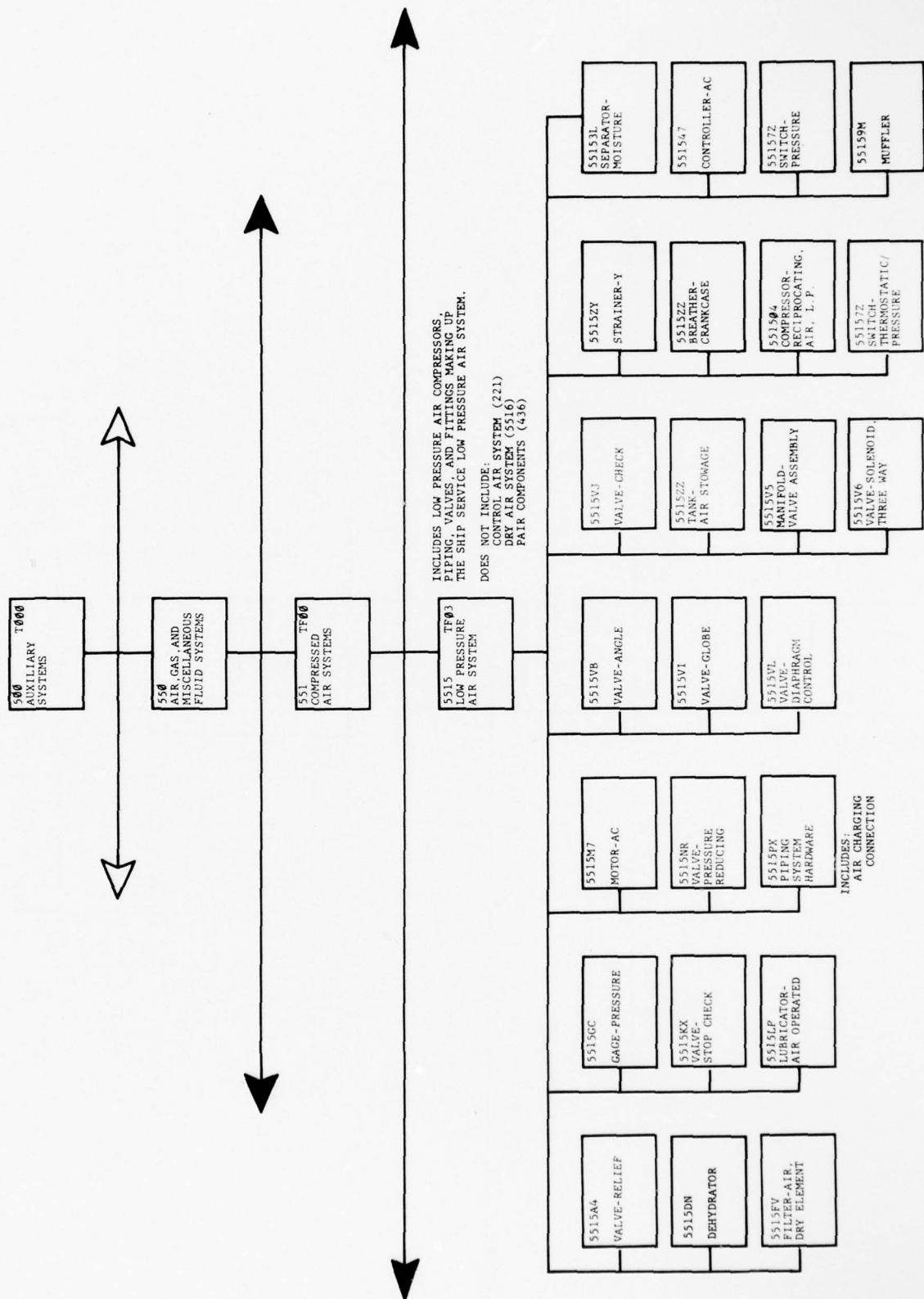


DDG-2 CLASS  
PREPARED 10-14-76

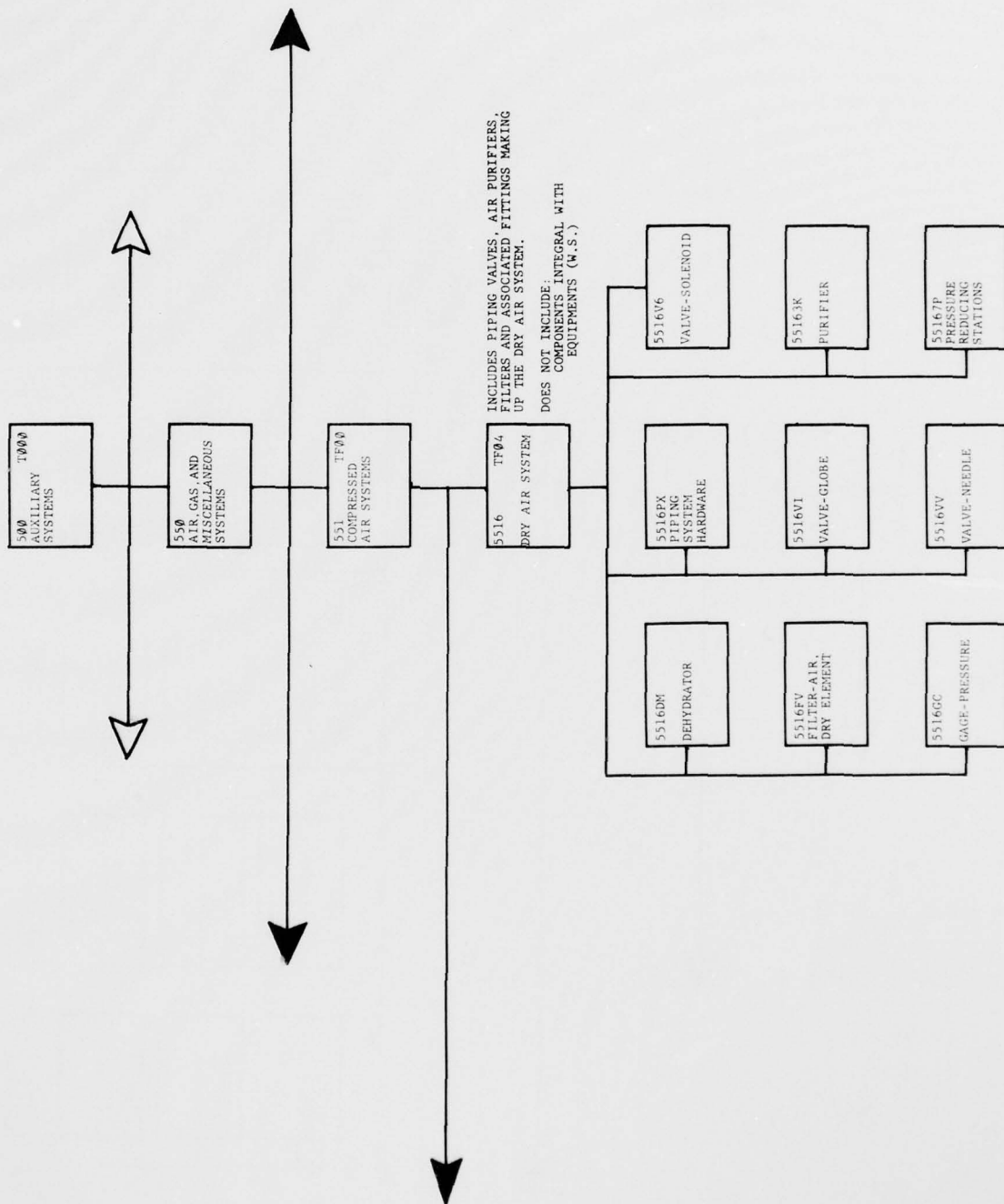








DDG-2 CLASS  
PREPARED 10-14-76



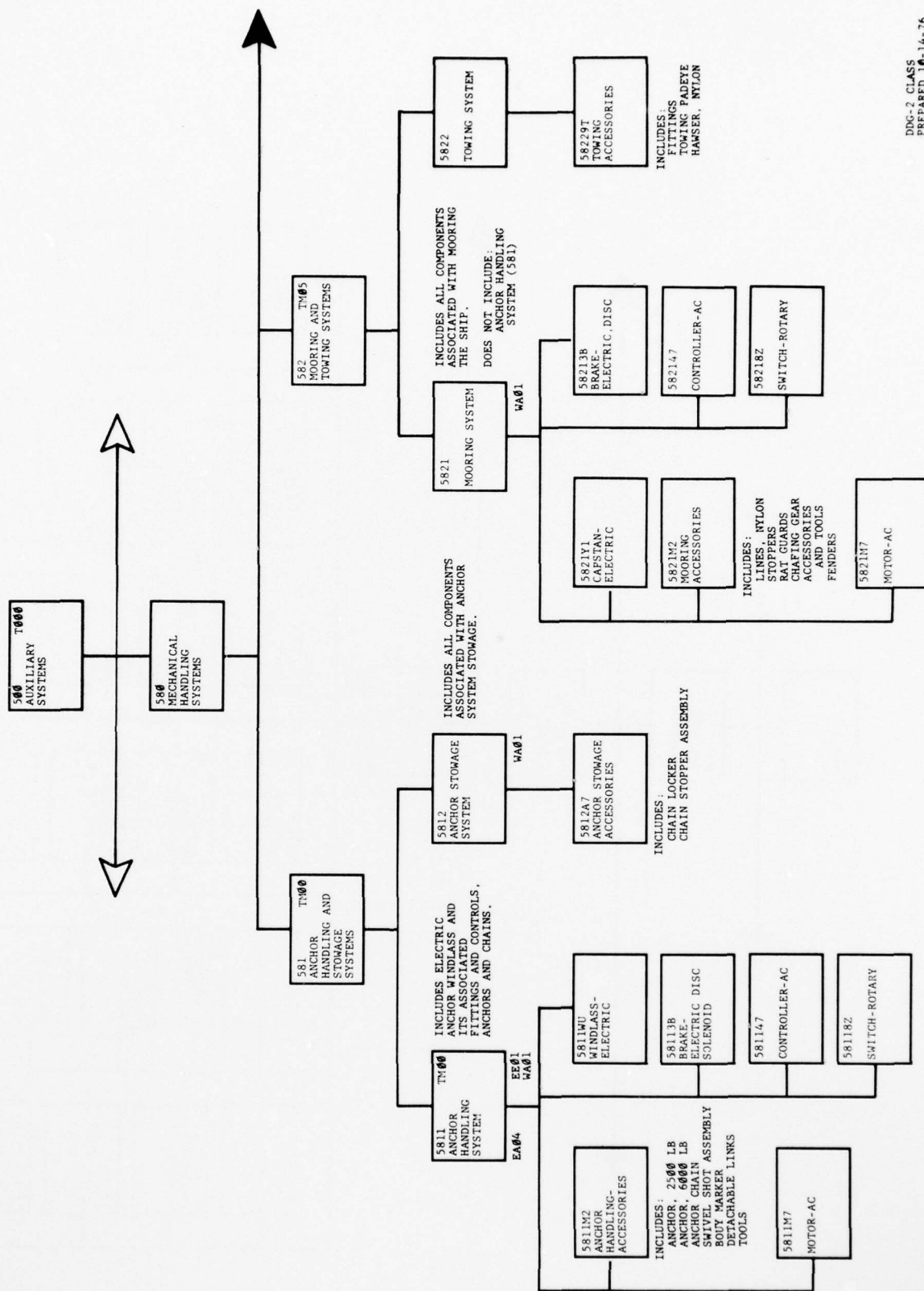






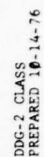


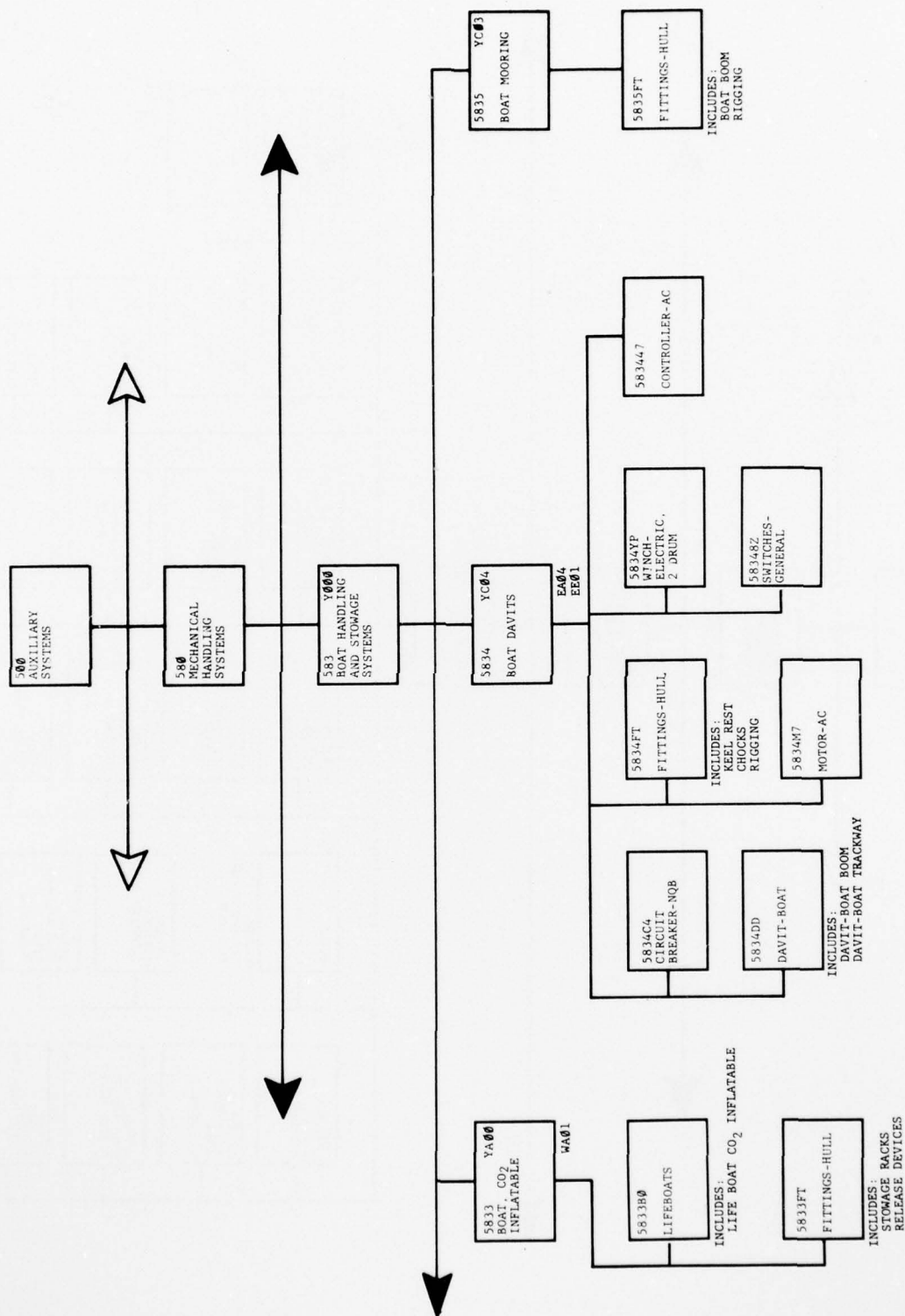


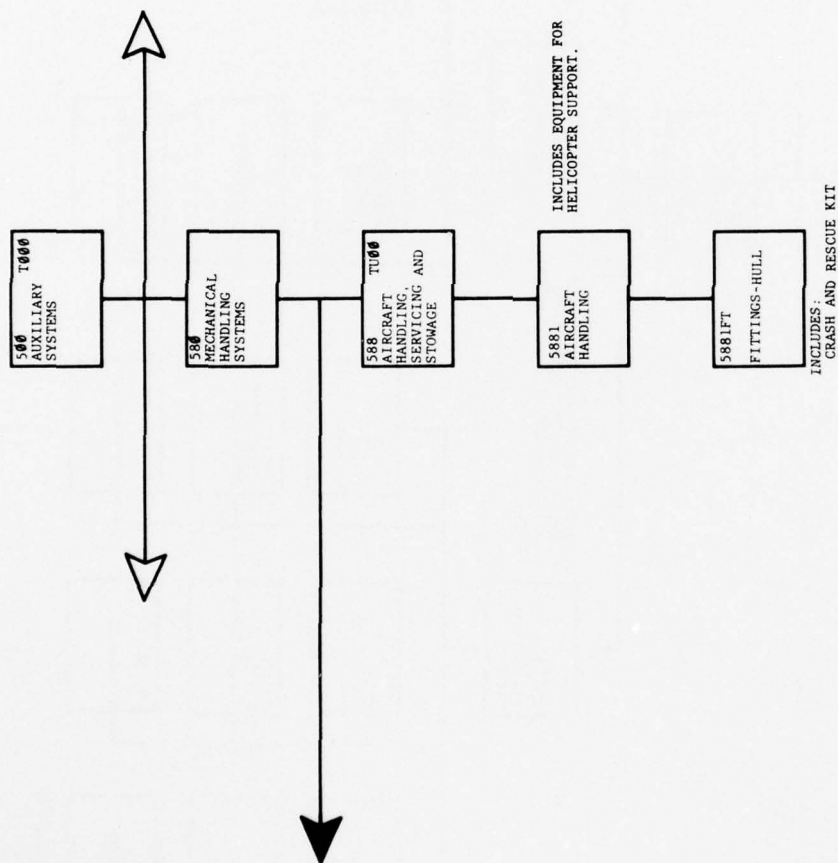


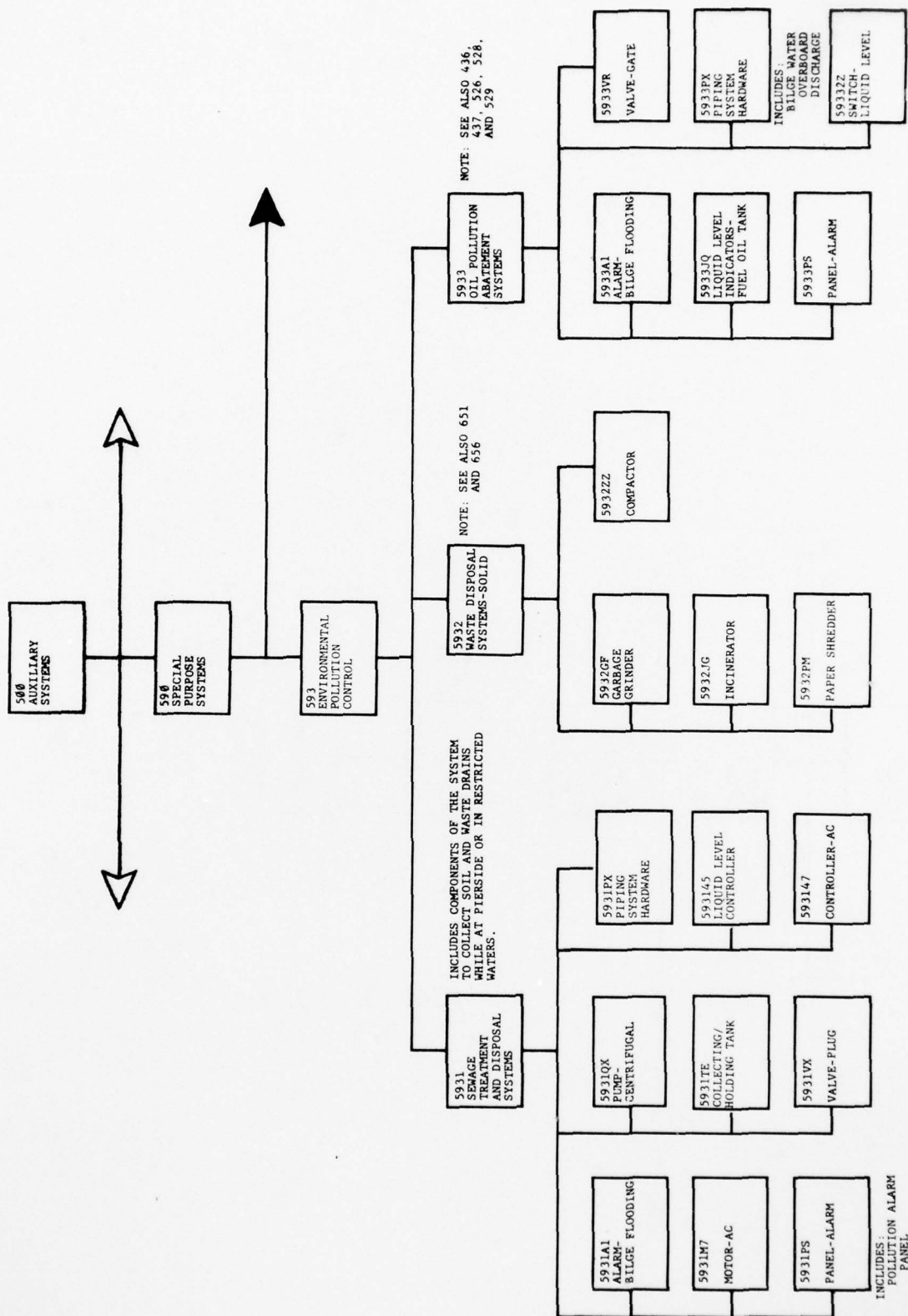




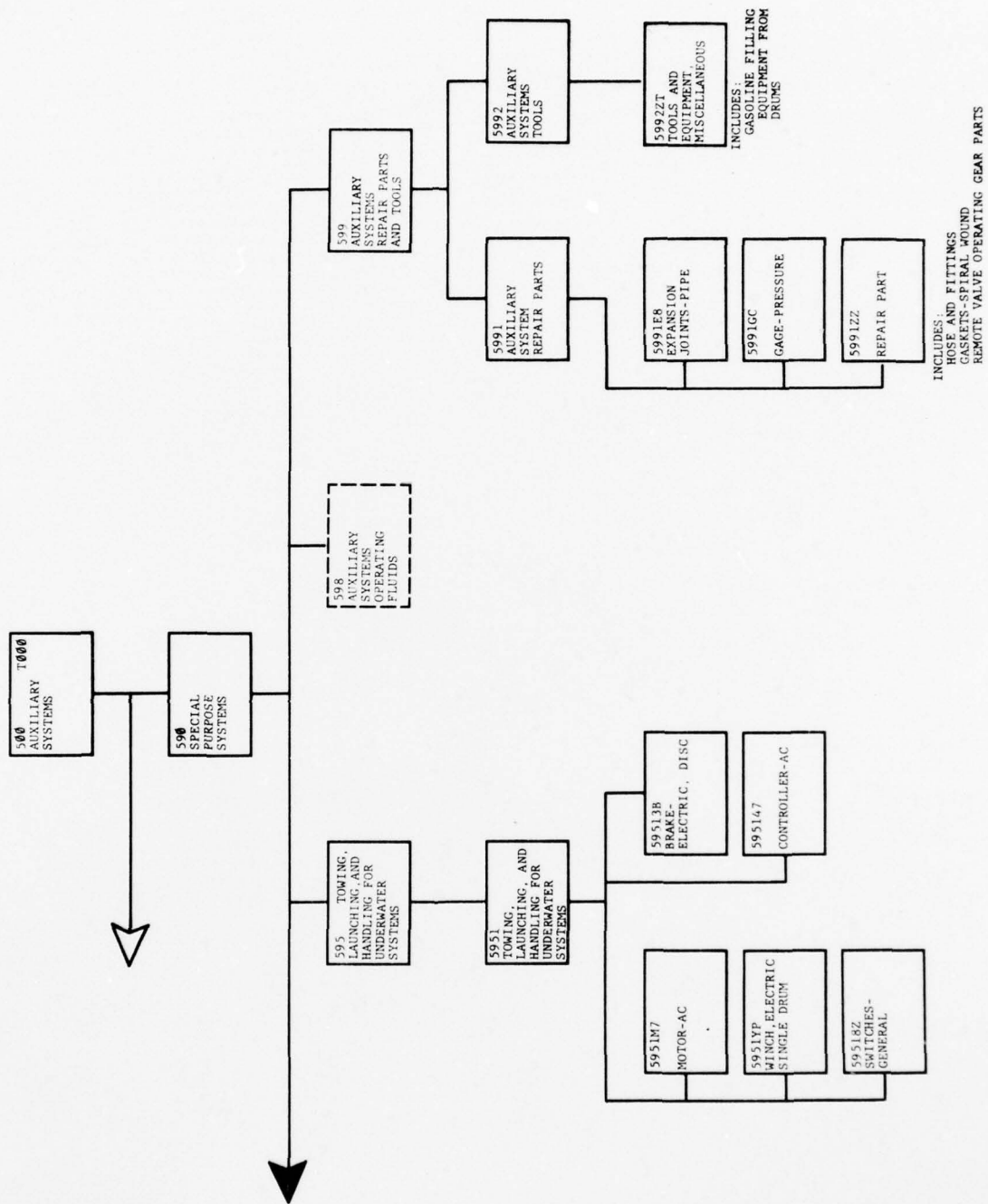




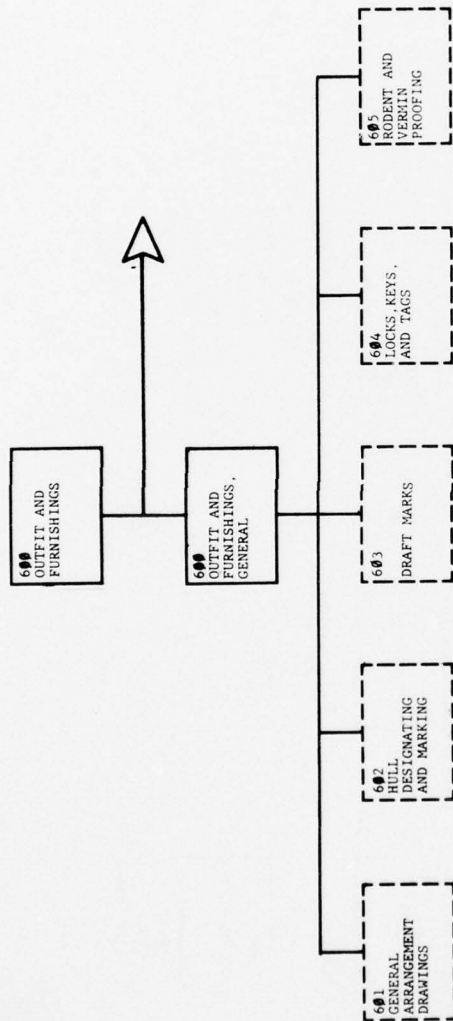


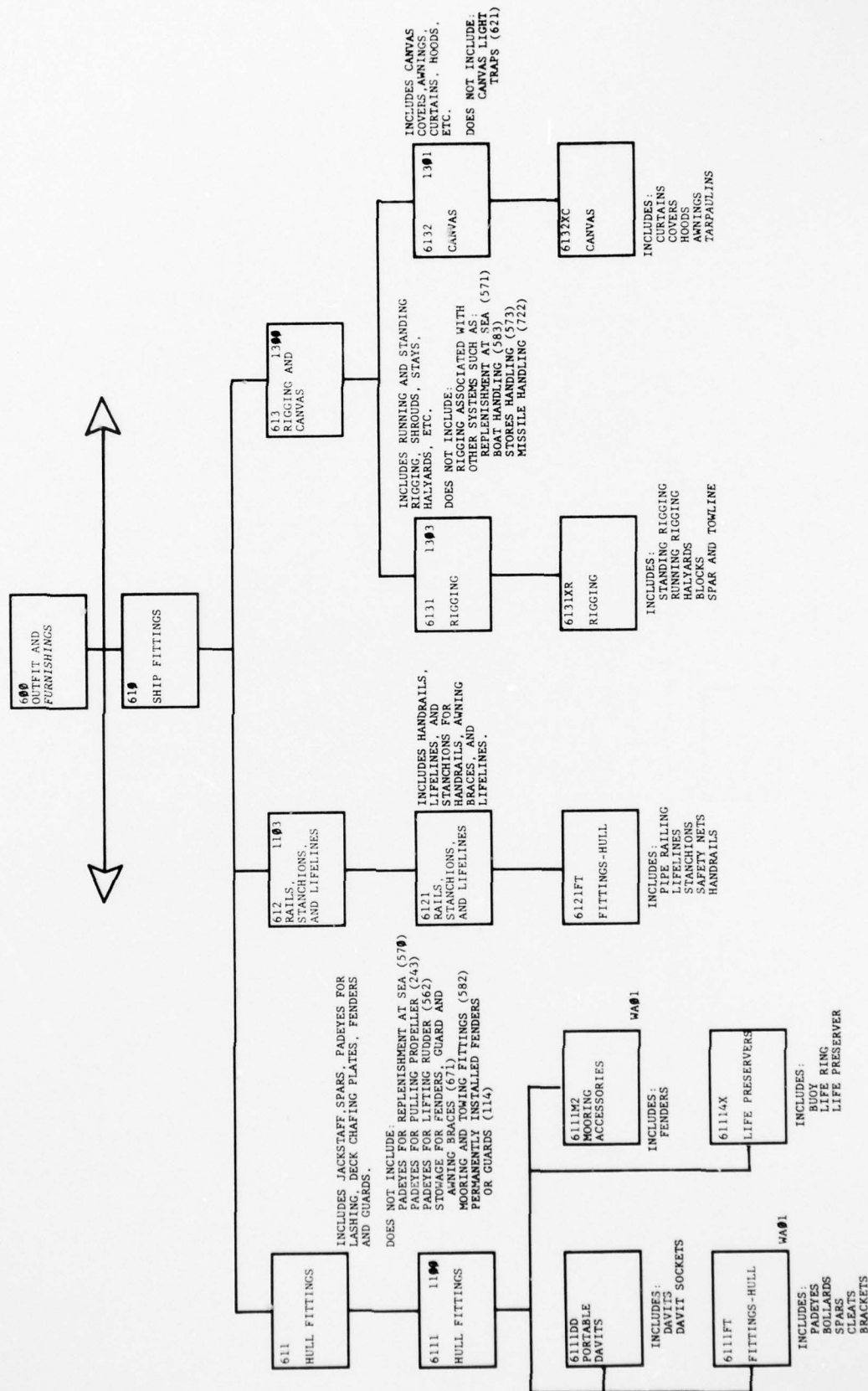


DDC-2 CLASS  
PREPARED 10-14-76









AD-A051 777

ARINC RESEARCH CORP ANNAPOLIS MD  
SHIP SYSTEMS DEFINITION AND INDEX (SWBS STAGING DIAGRAMS) FOR D--ETC(U)  
NOV 76

F/G 13/10

N00140-74-D-0090

UNCLASSIFIED

1237-01-1-1472

NL

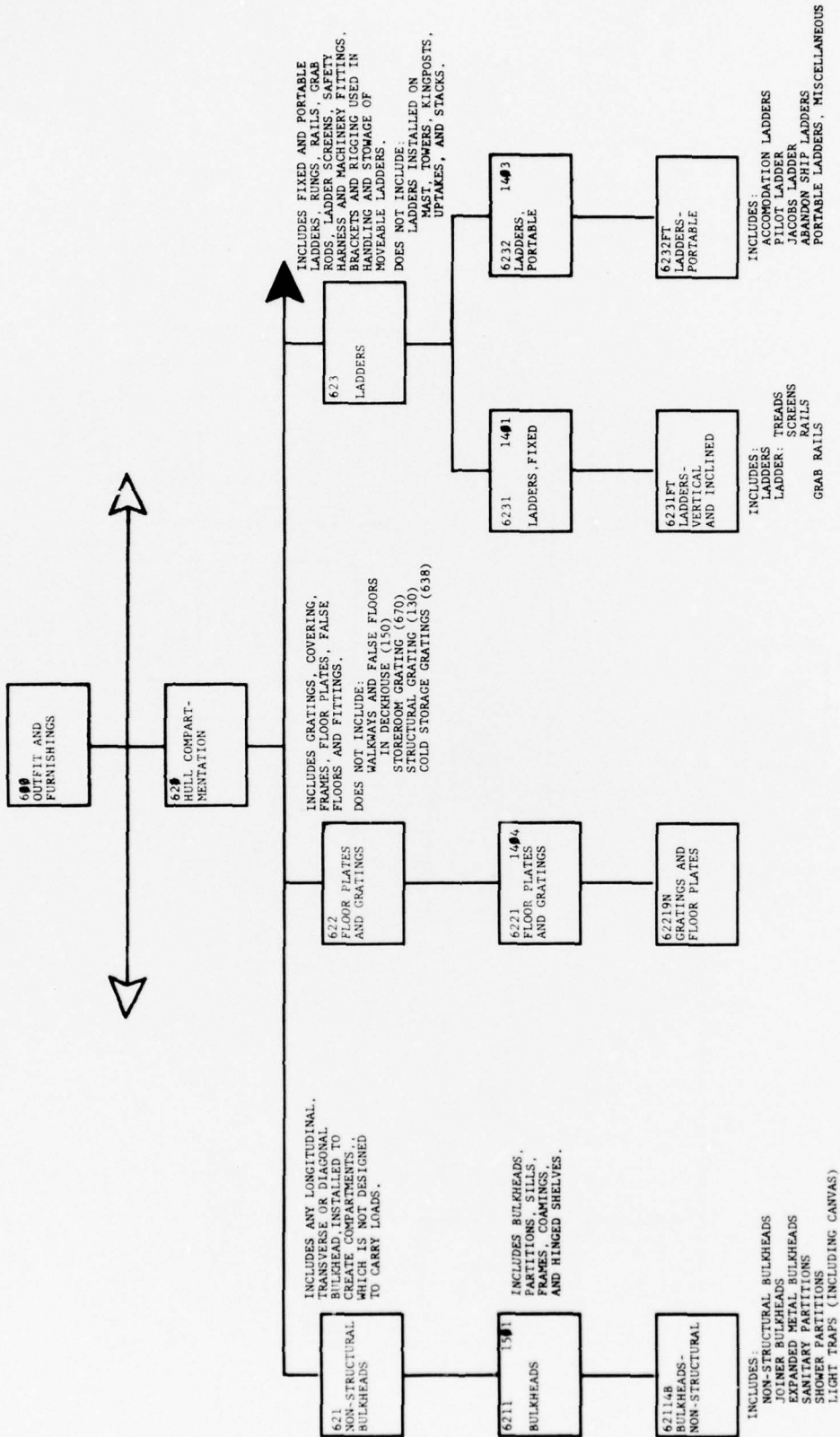
3 OF 3  
AD  
A051 777



END  
DATE  
FILMED  
5-78

DDC

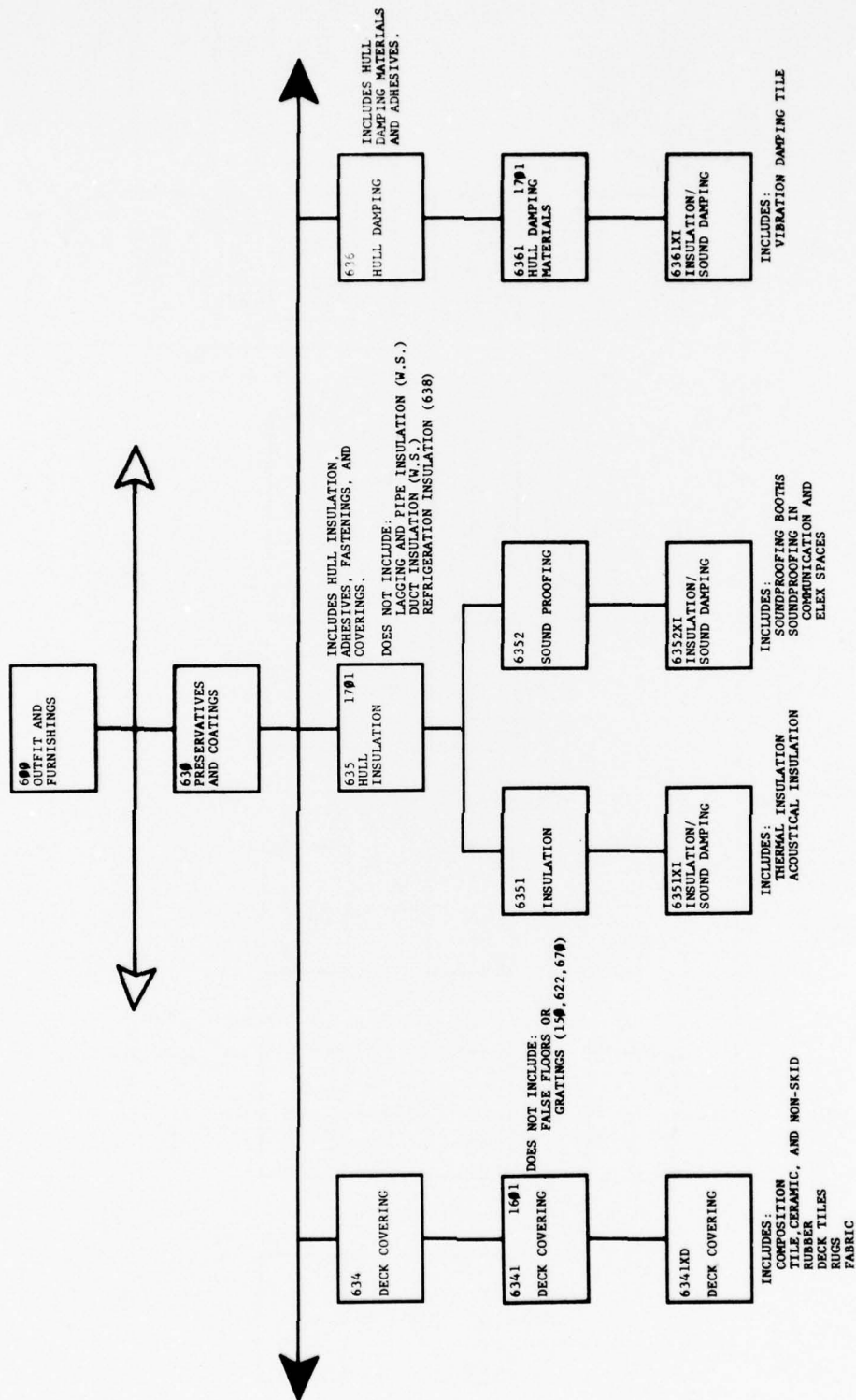


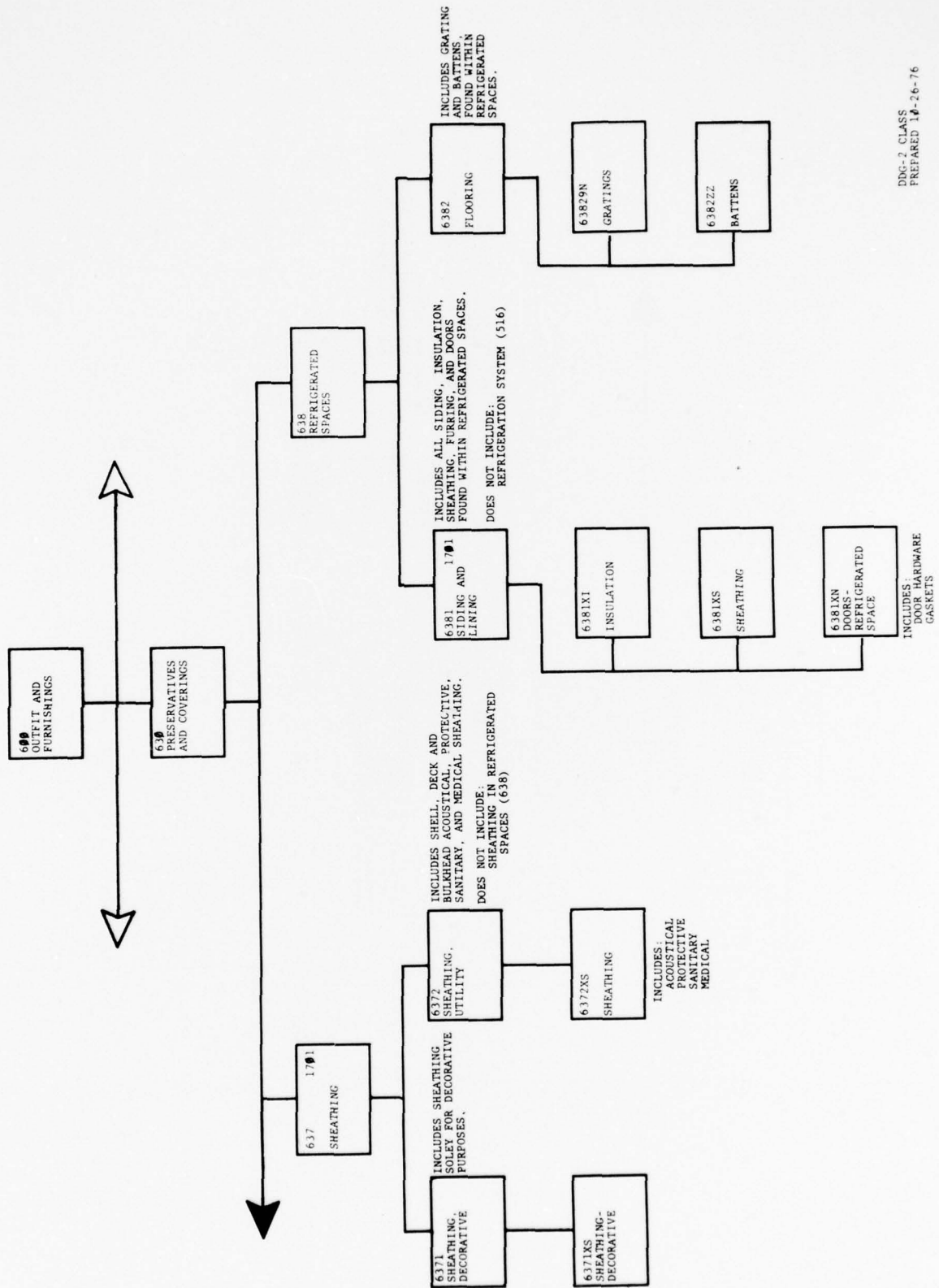




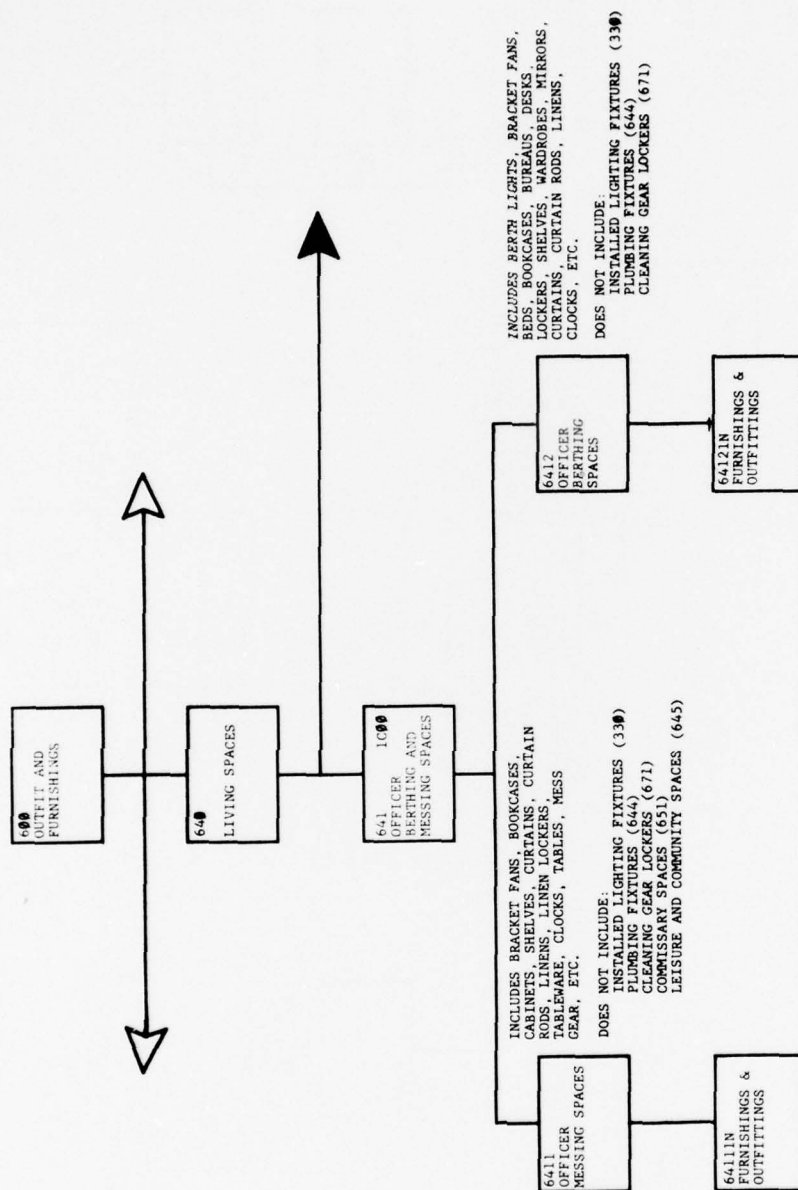




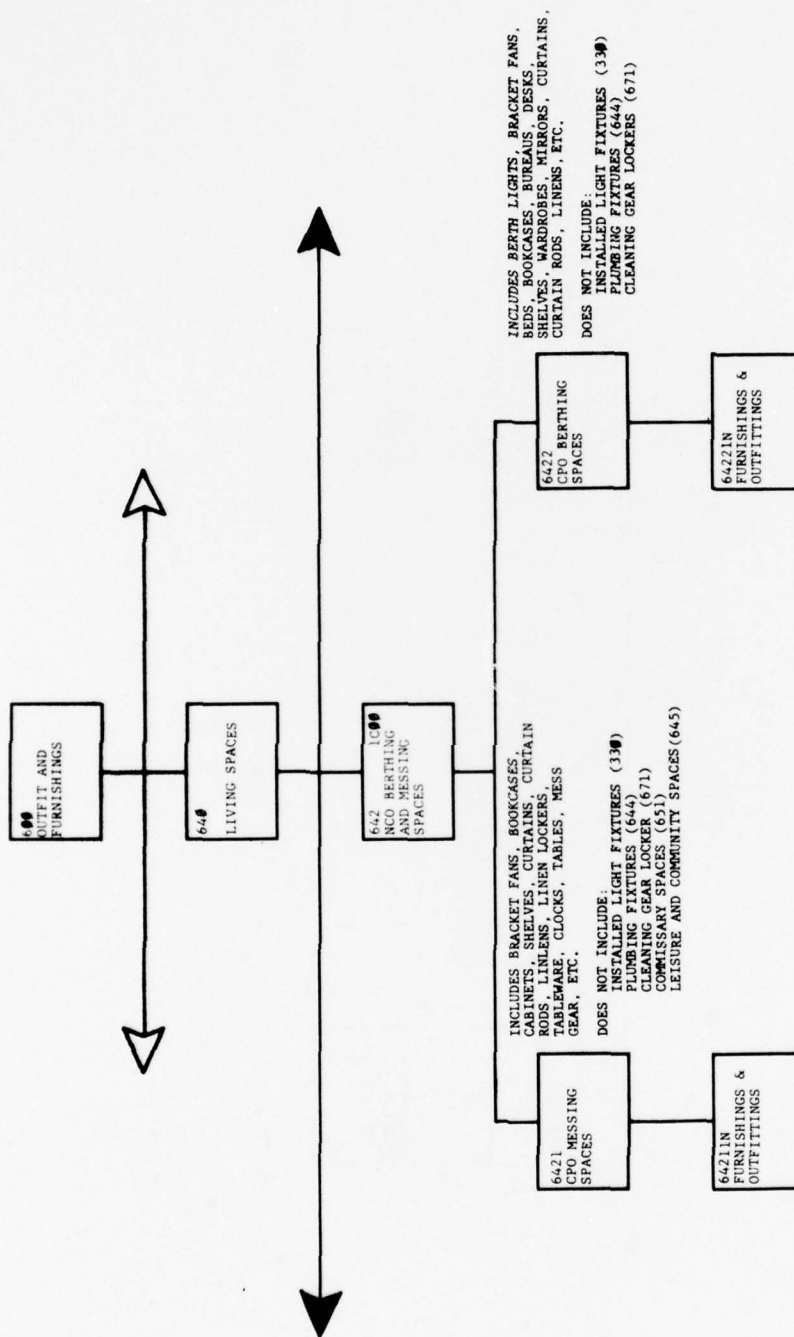


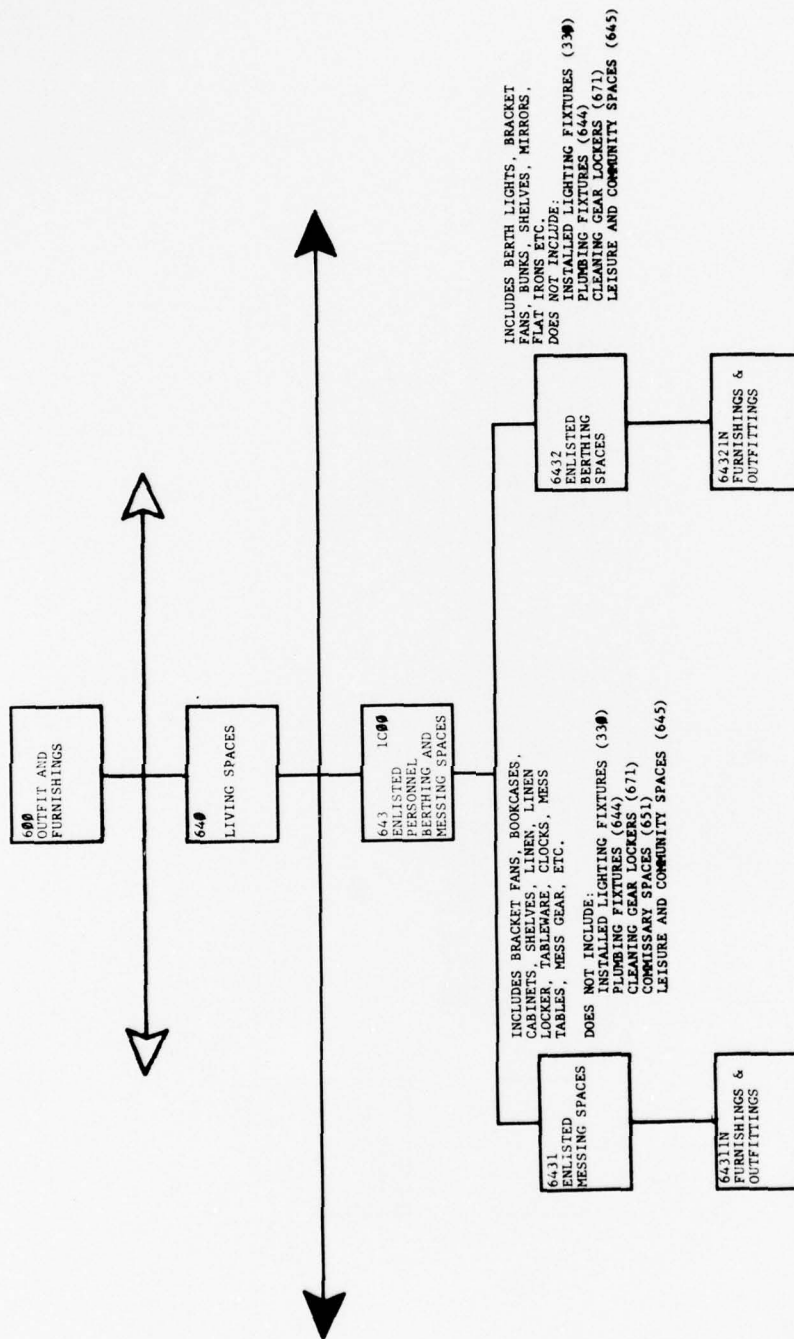


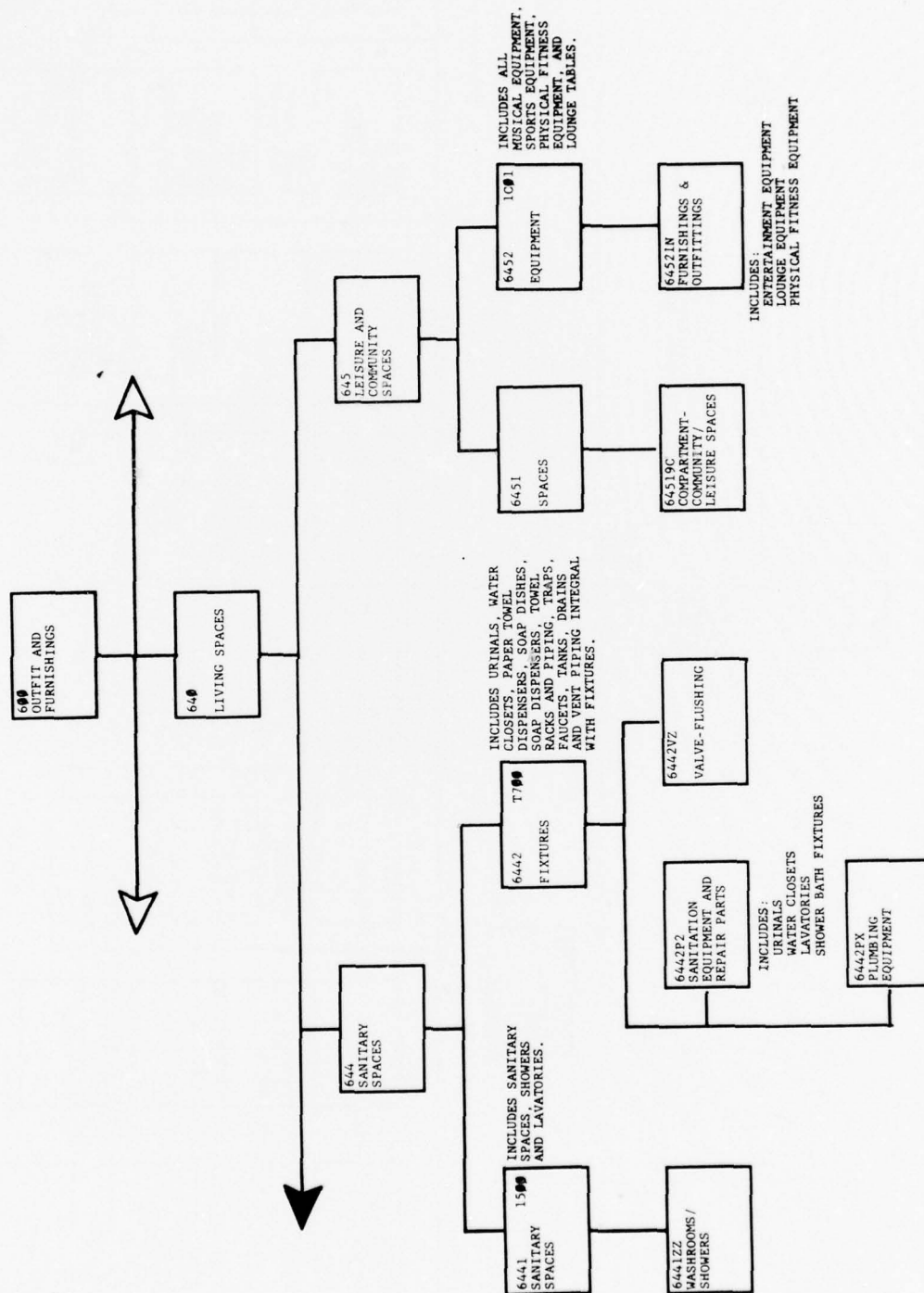
DDG-2 CLASS  
PREPARED 10-26-76









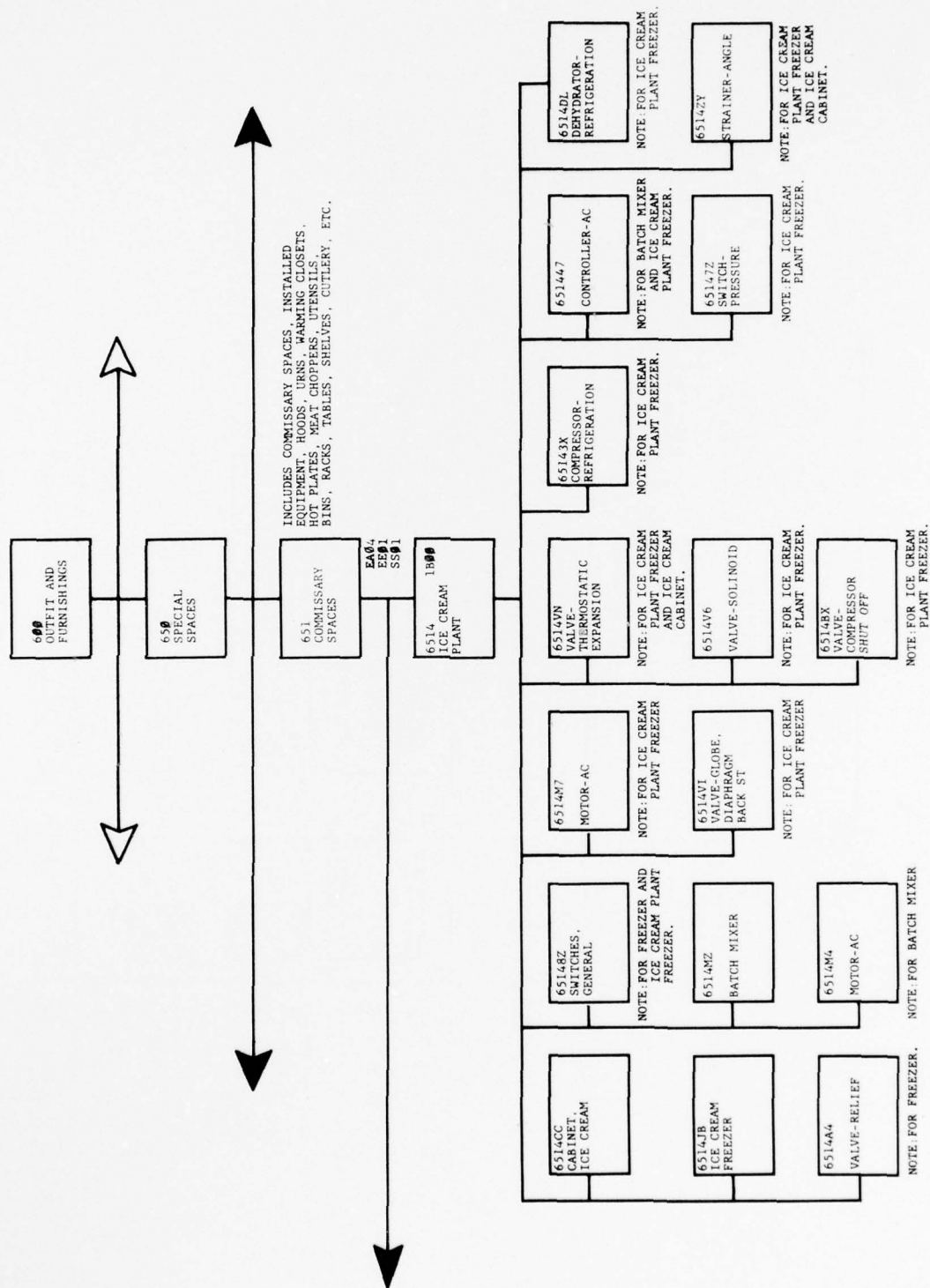


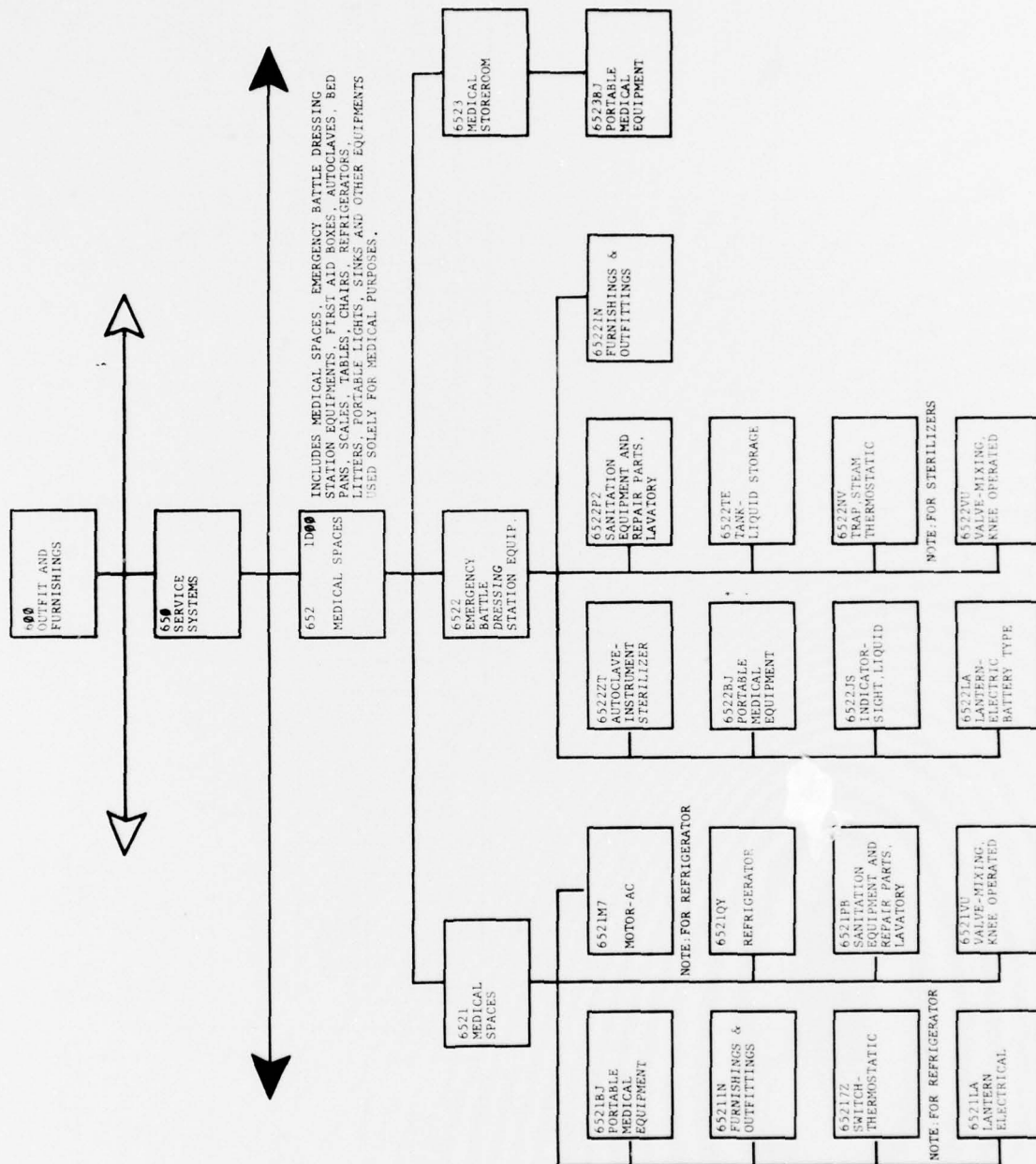


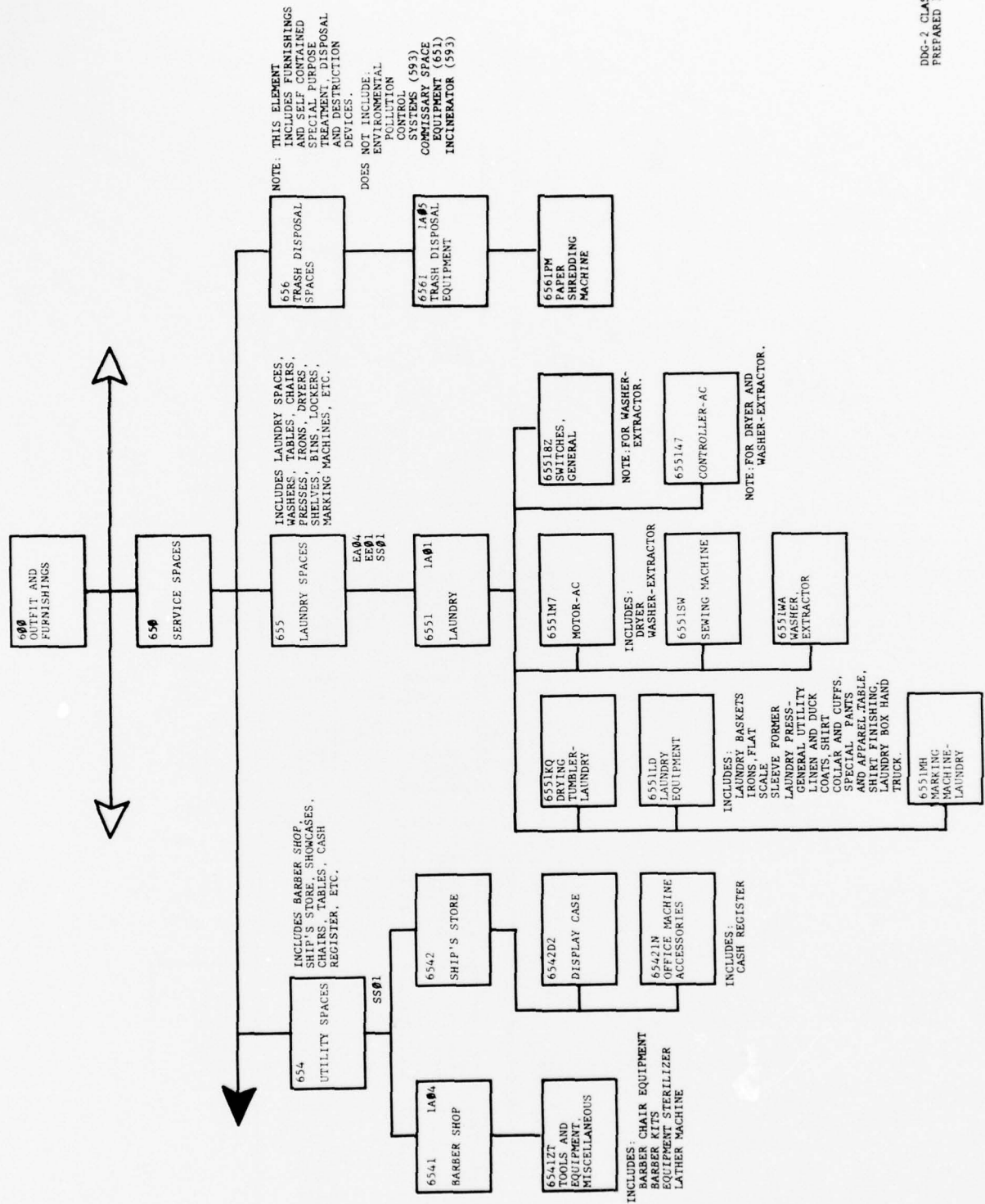


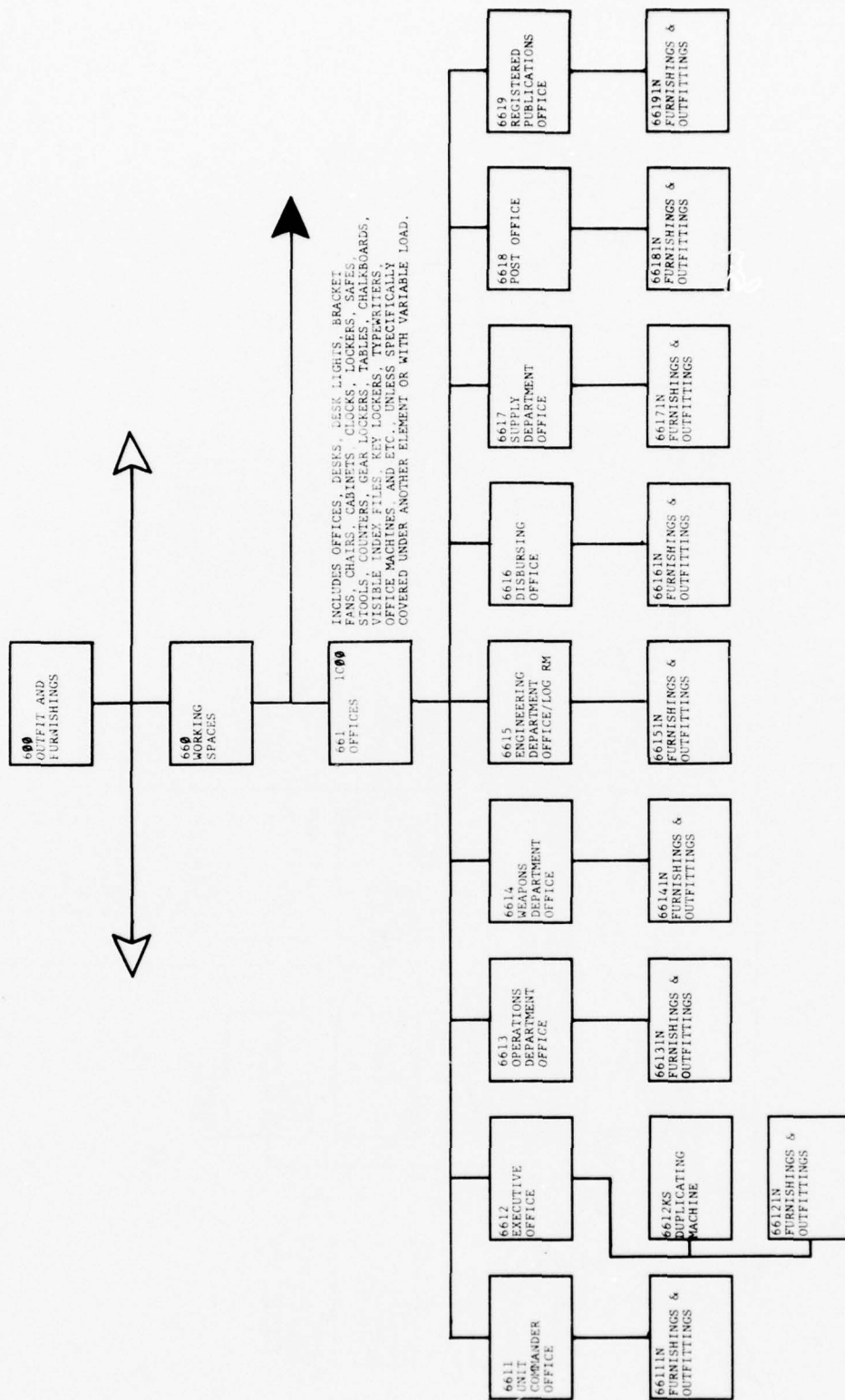




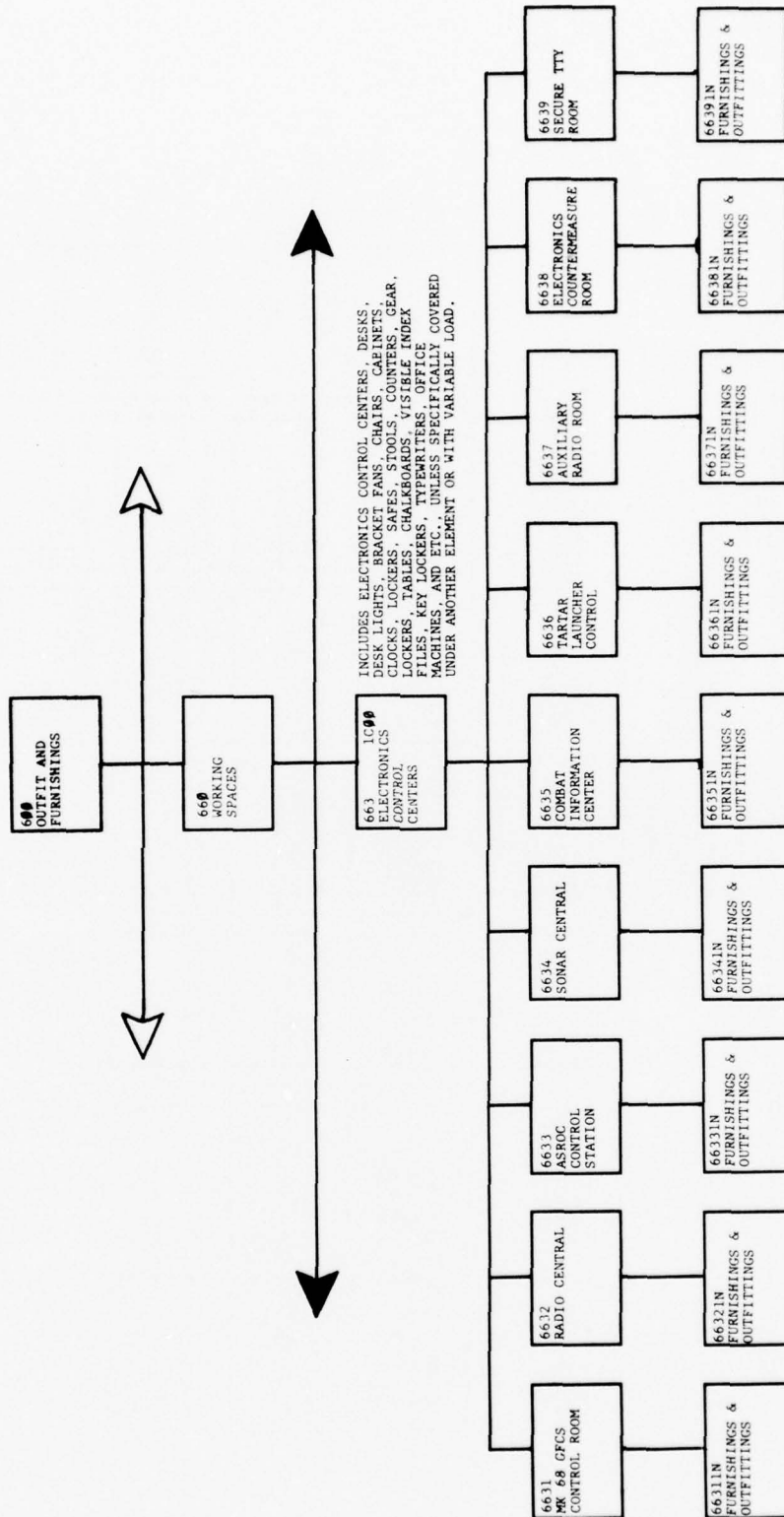


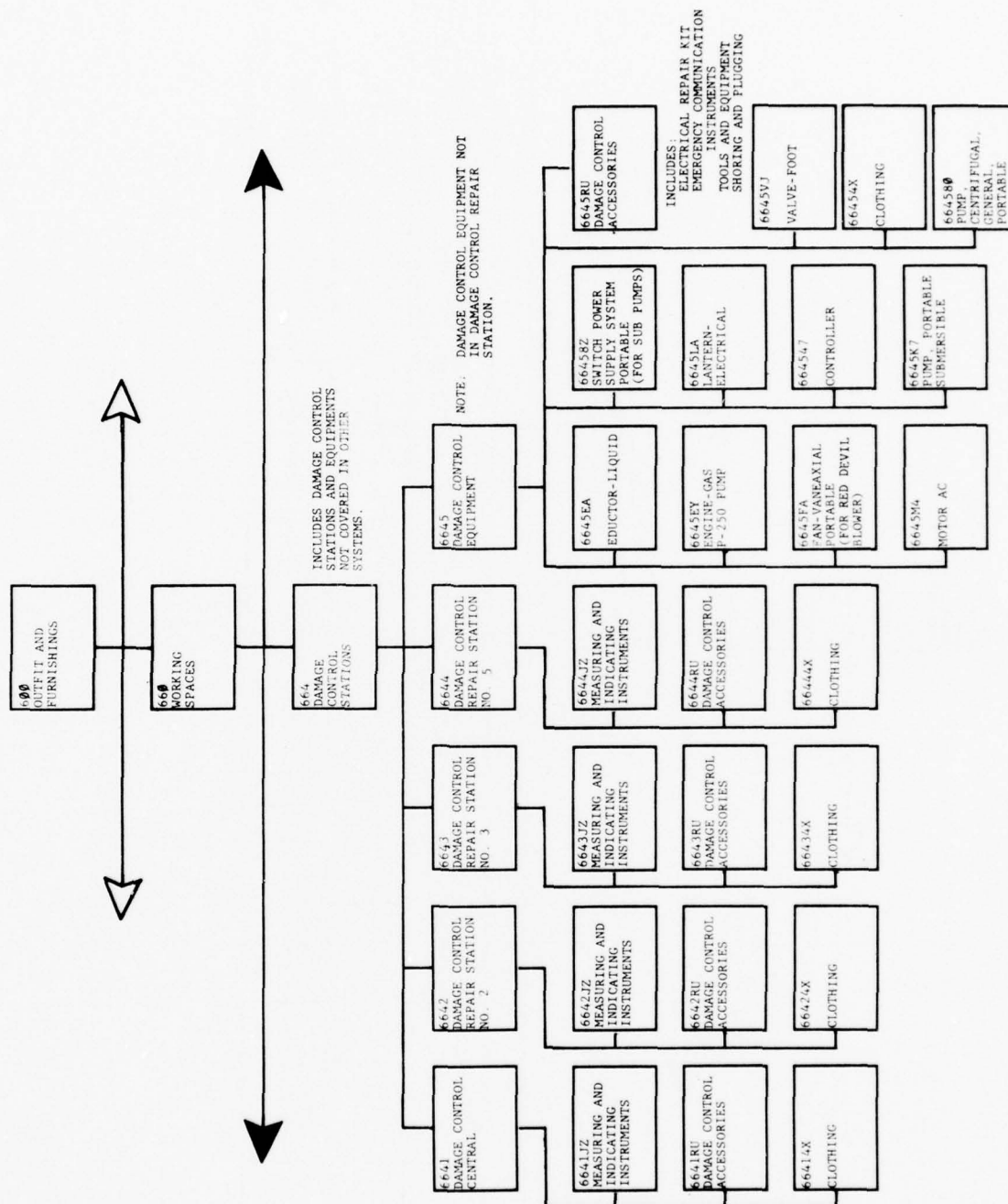




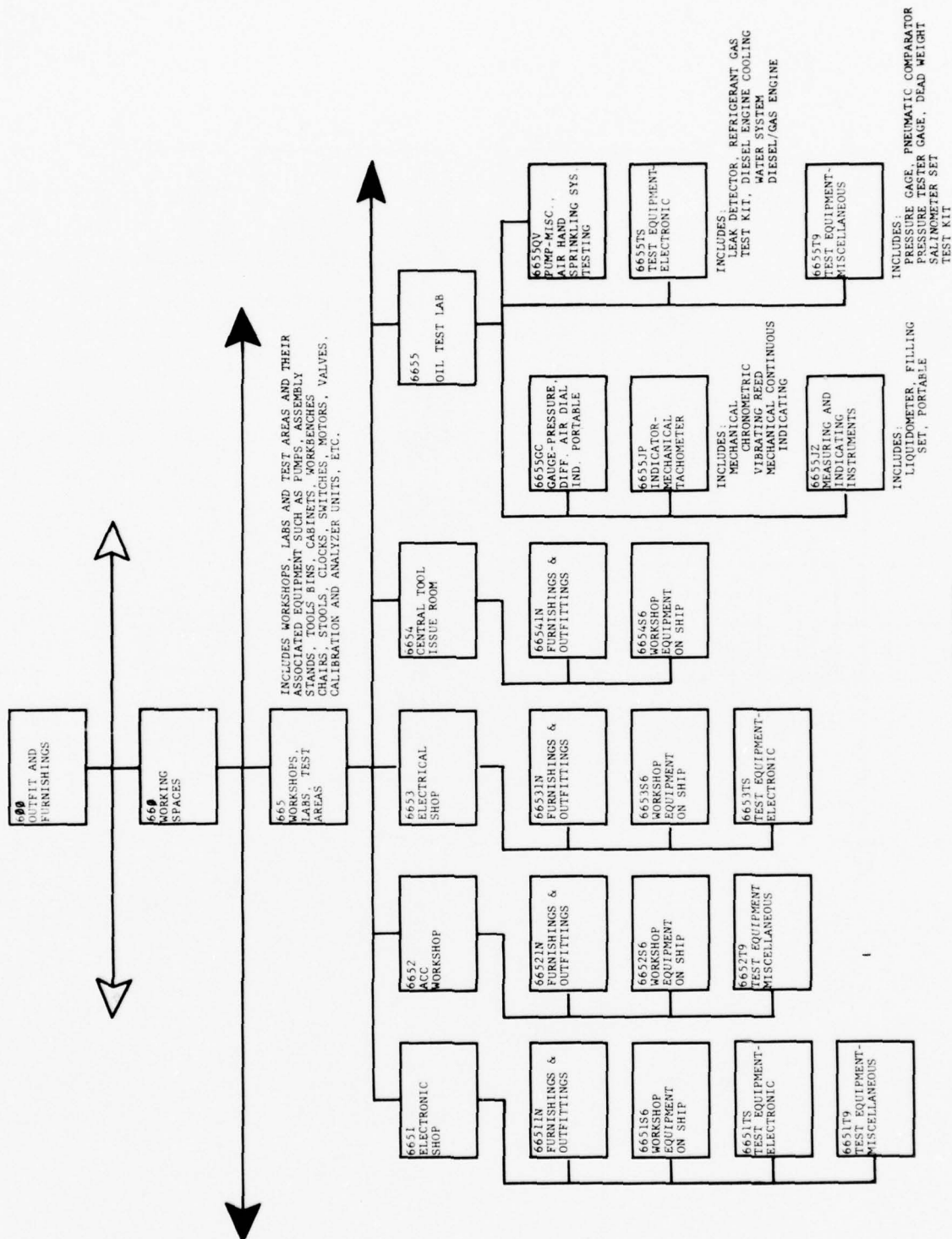




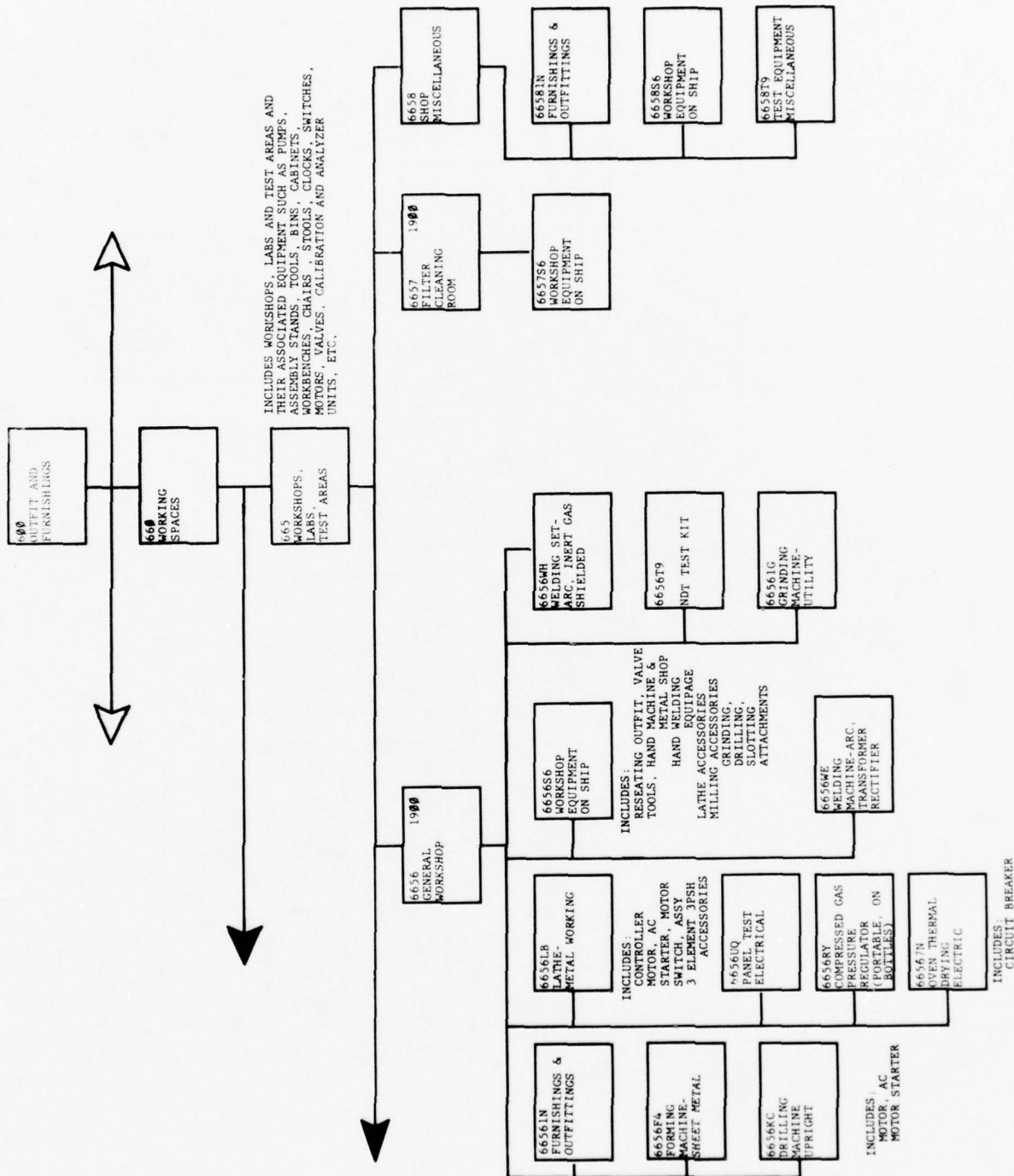


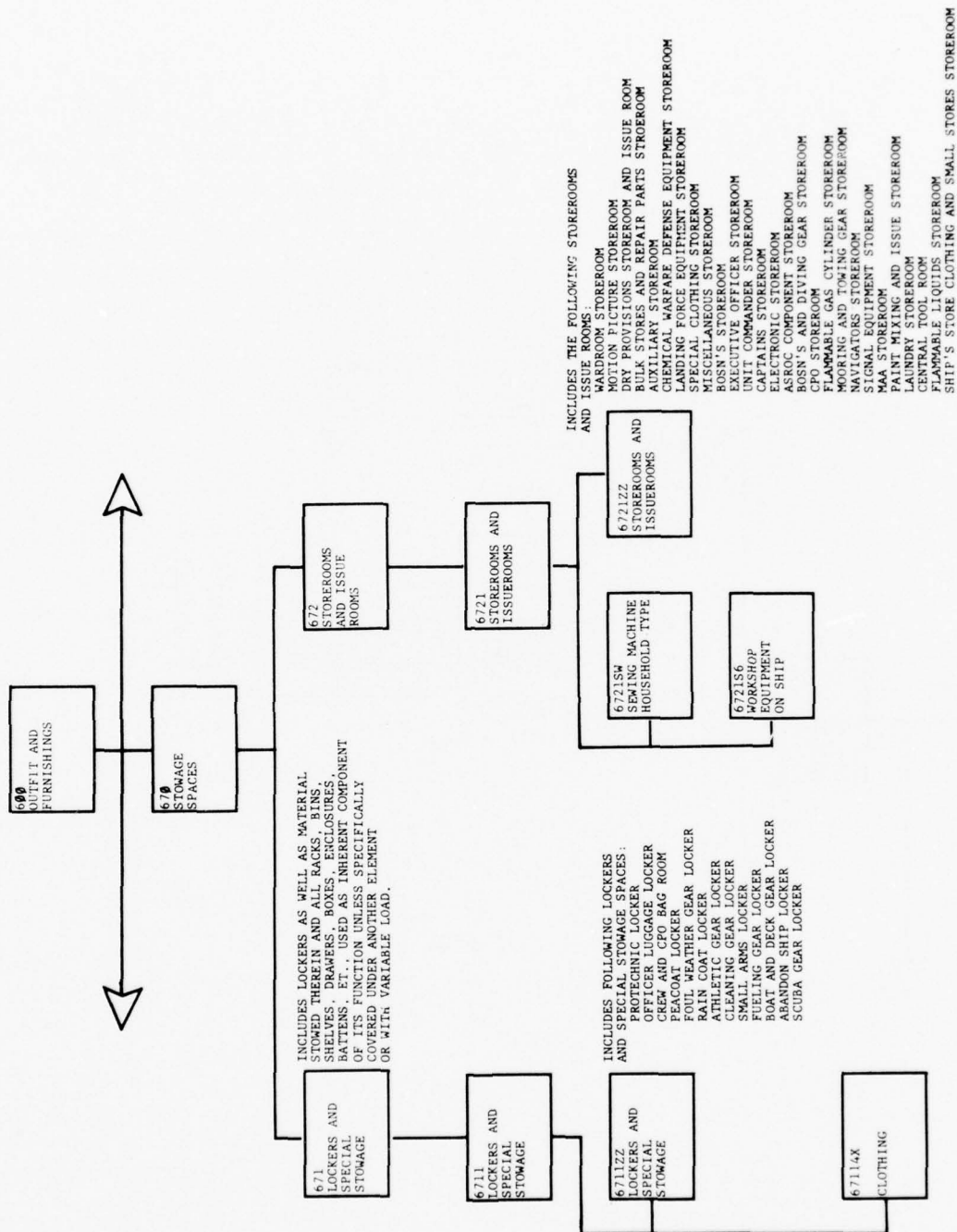


DWG-2 CLASS  
PREPARED 10-26-76

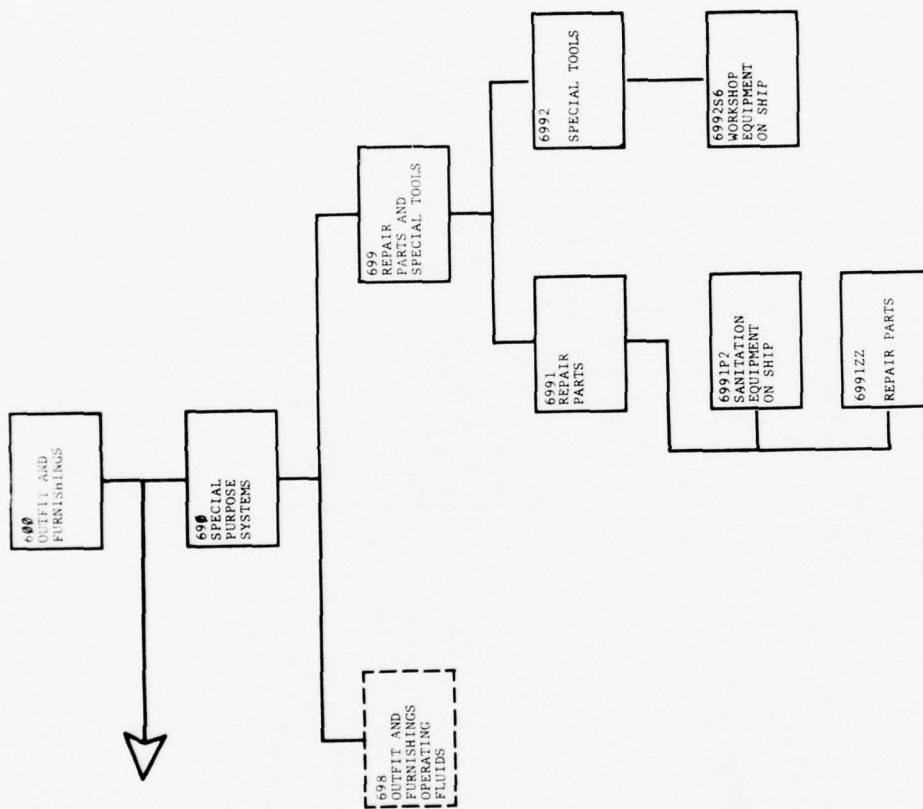


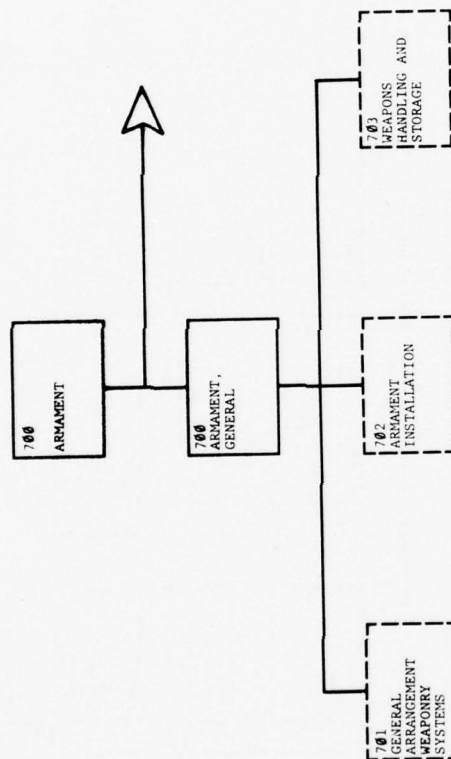
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PREPARED 10-26-76

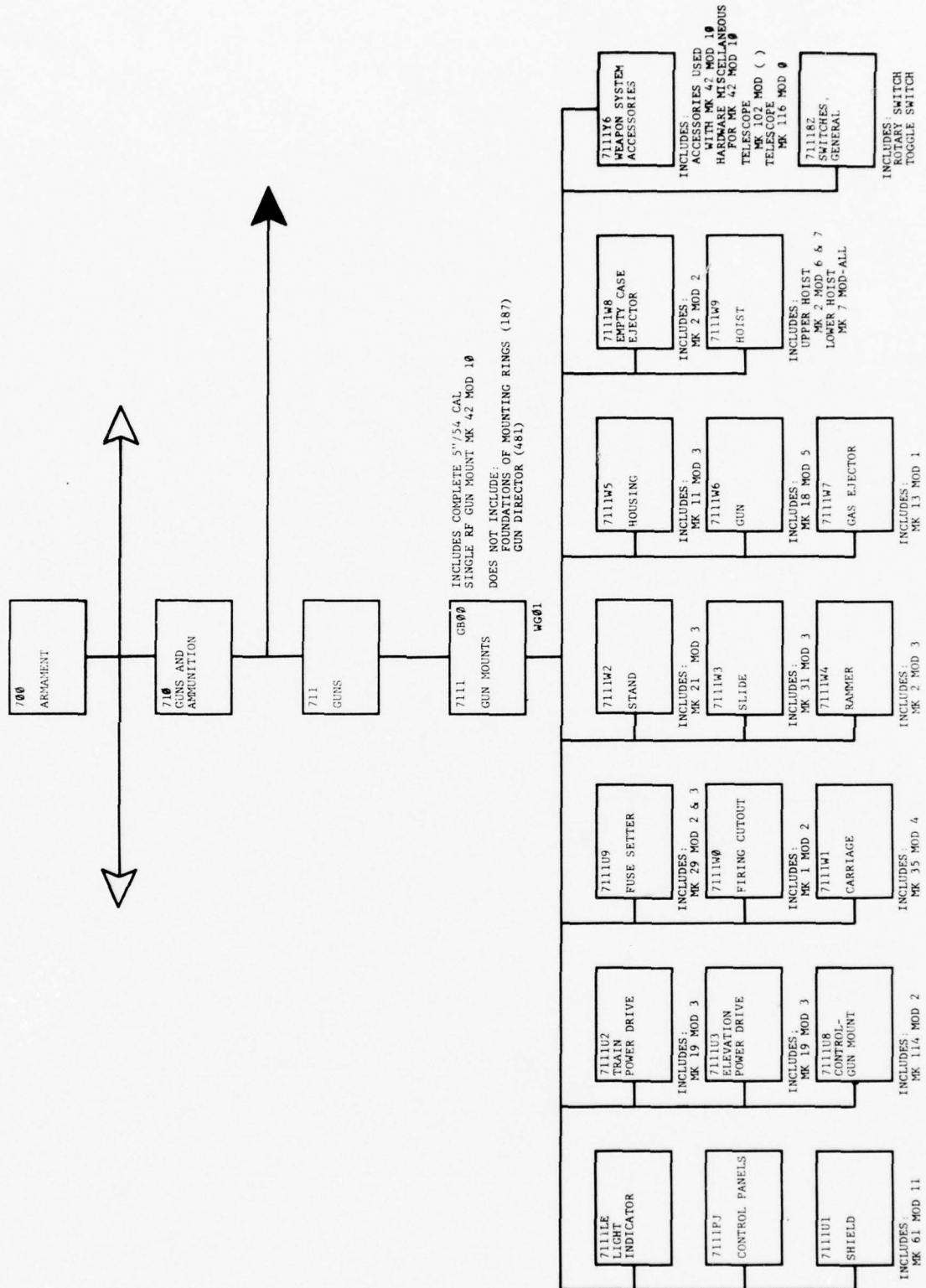


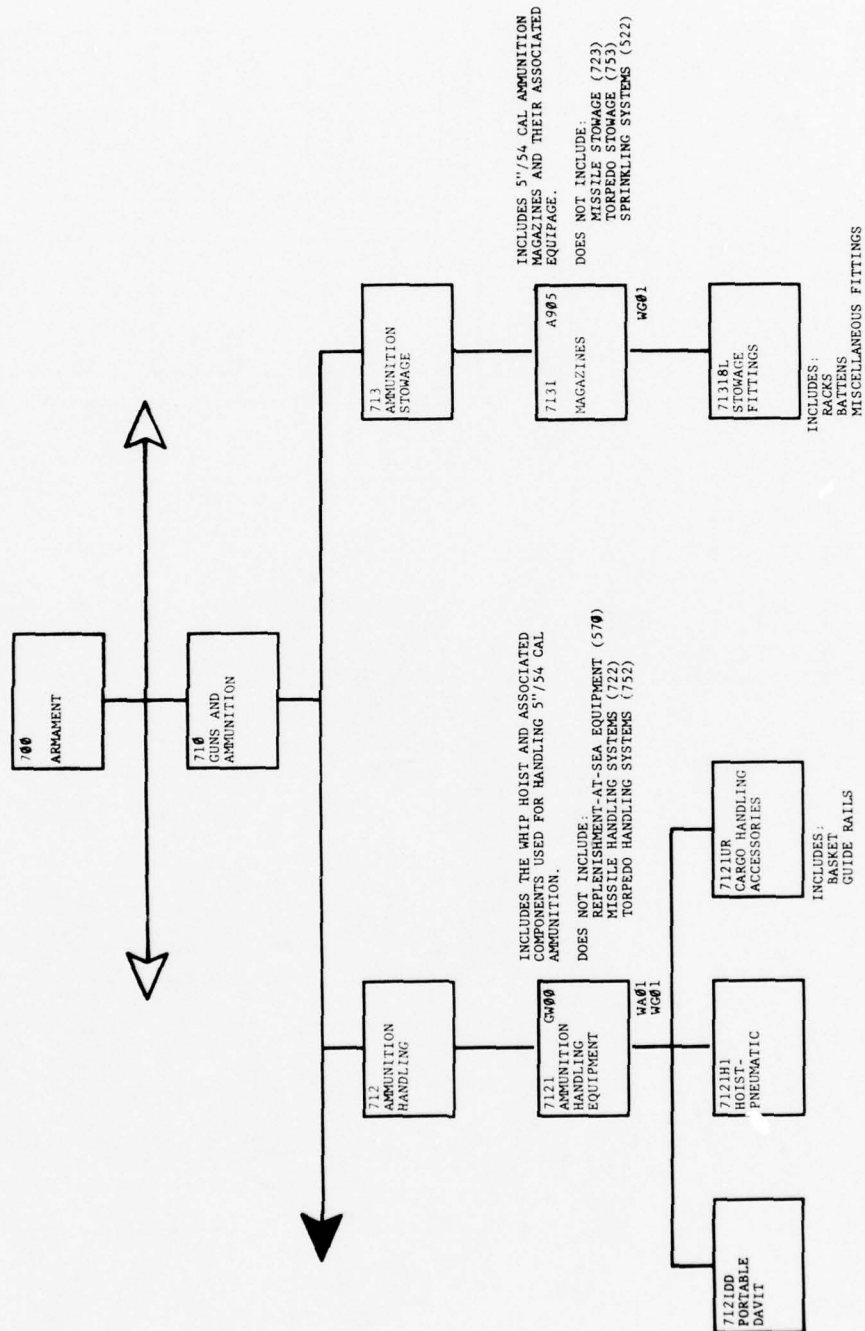






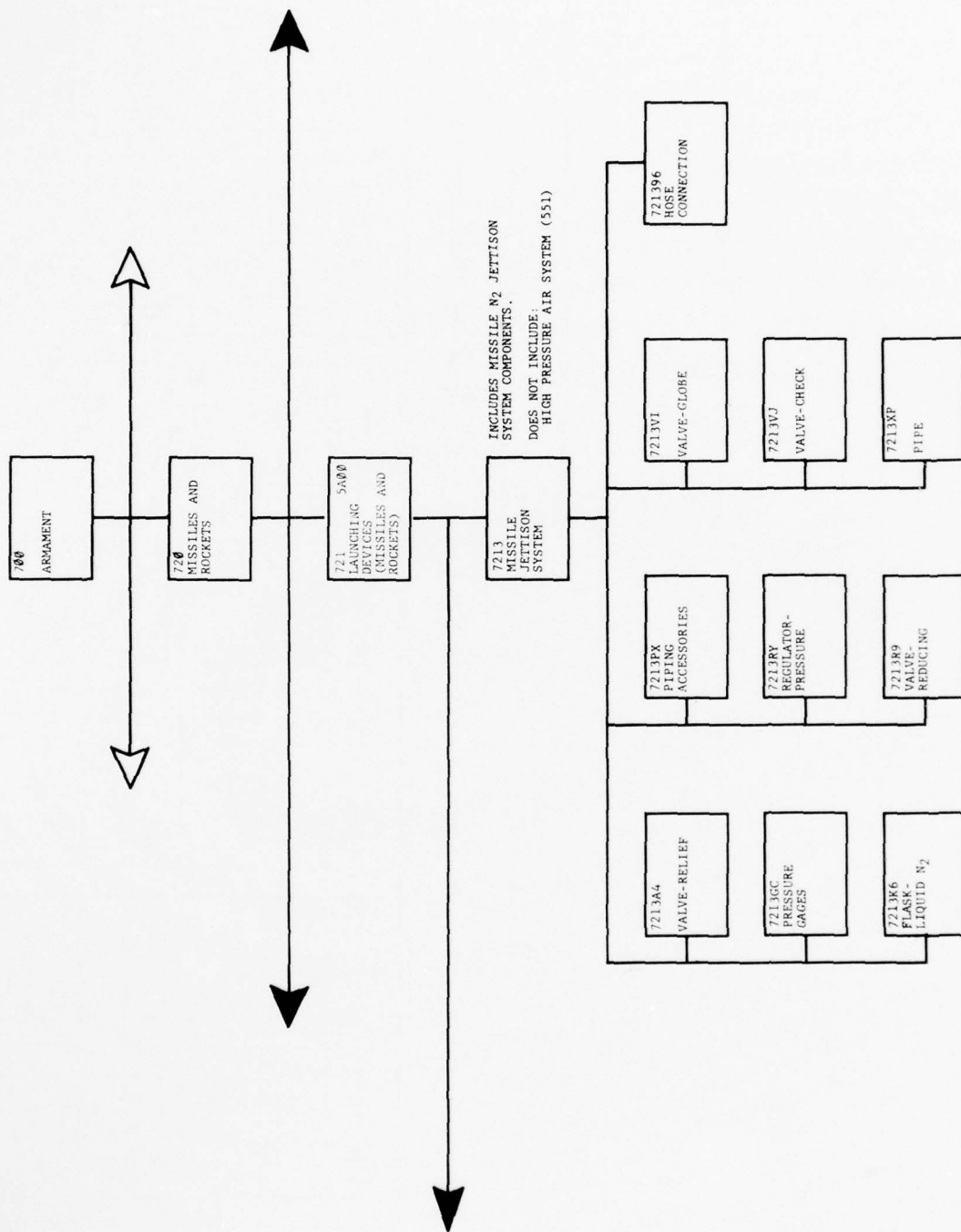






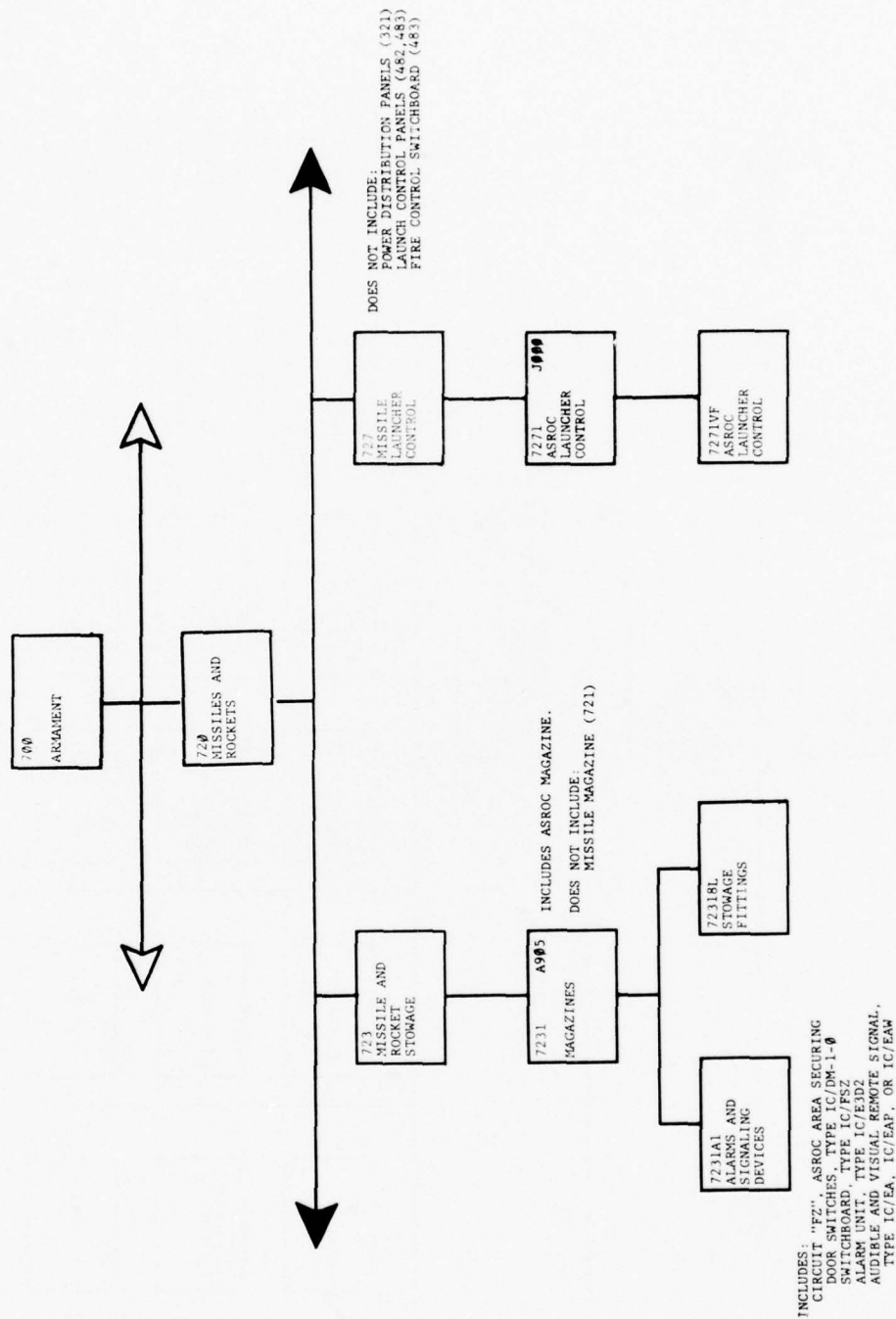


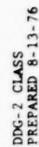




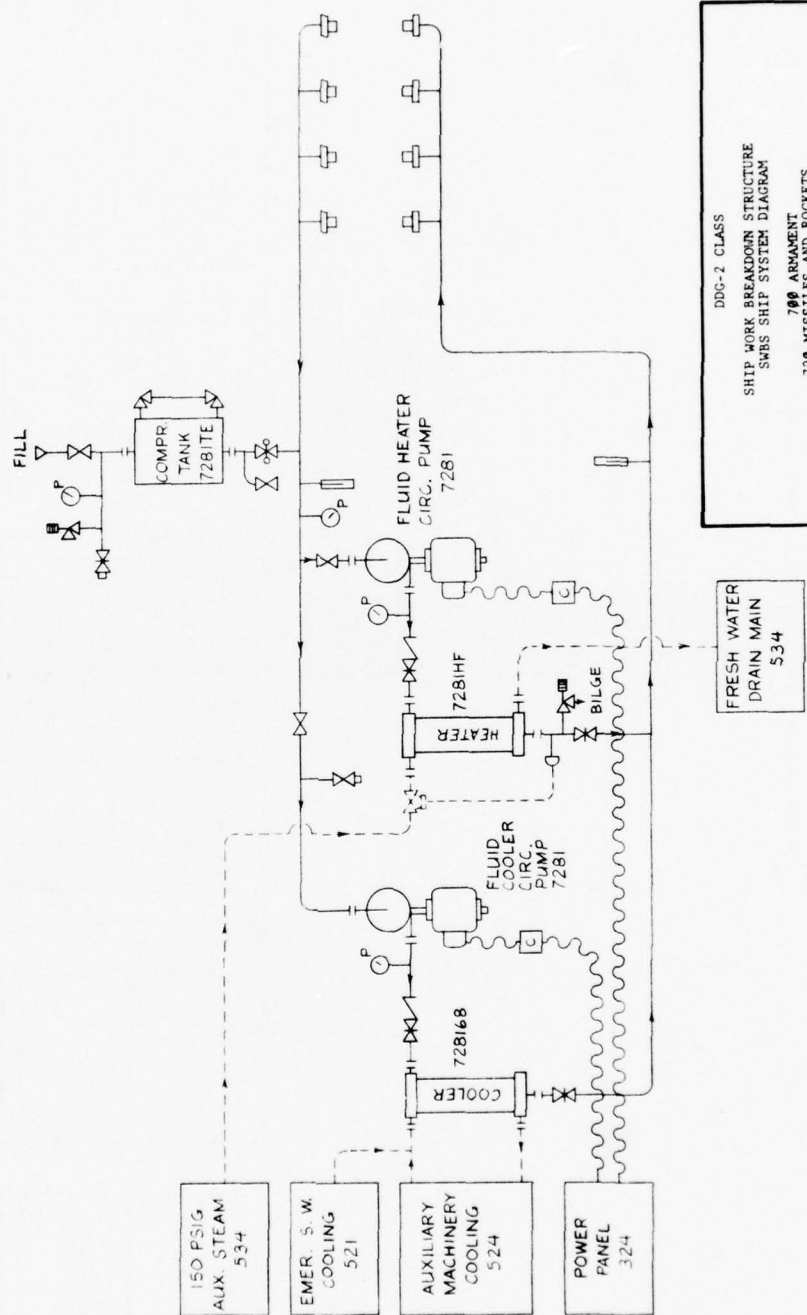












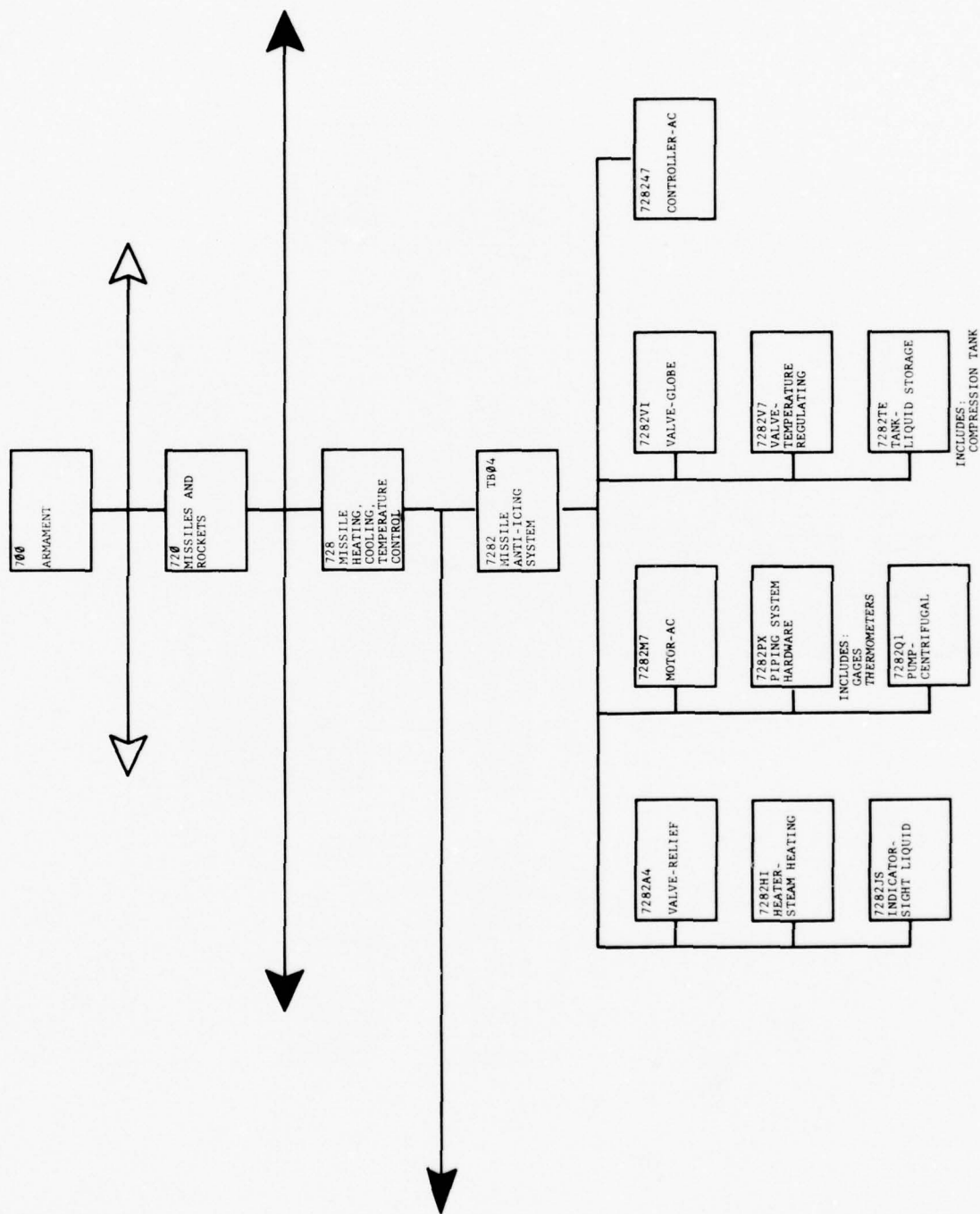
DDG-2 CLASS

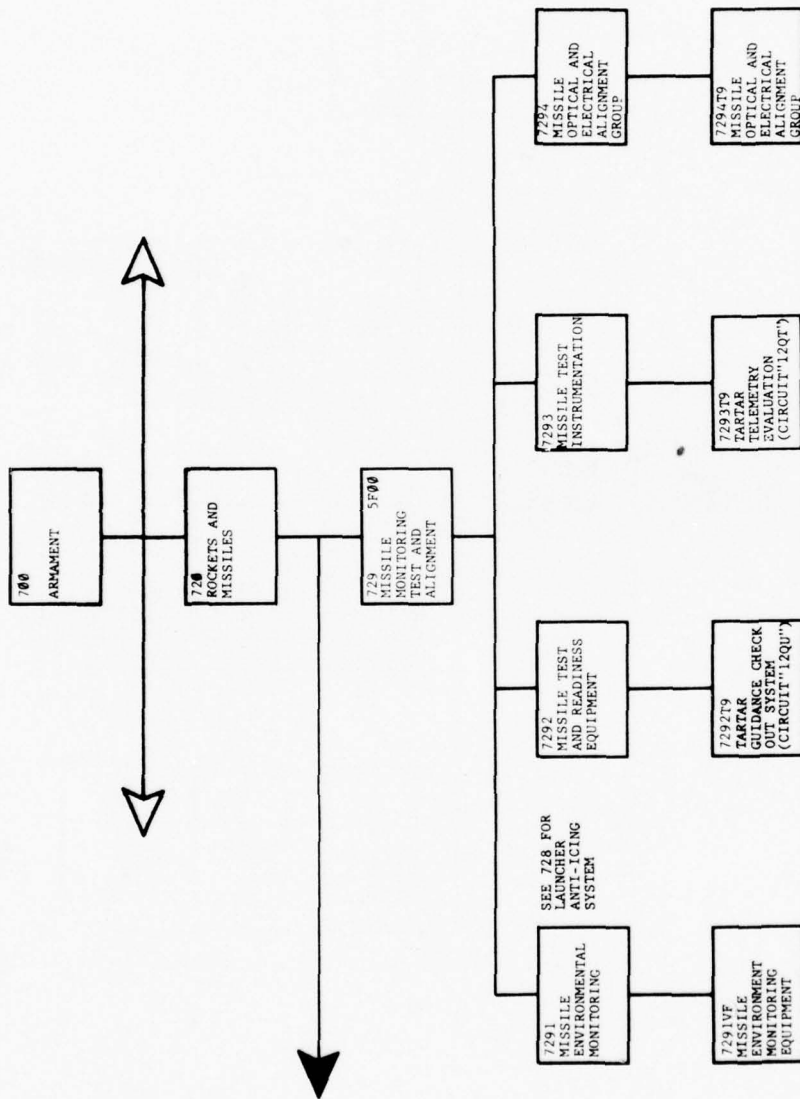
SHIP WORK BREAKDOWN STRUCTURE  
SNBS SHIP SYSTEM DIAGRAM

700 ARMAMENT

720 MISSILES AND ROCKETS

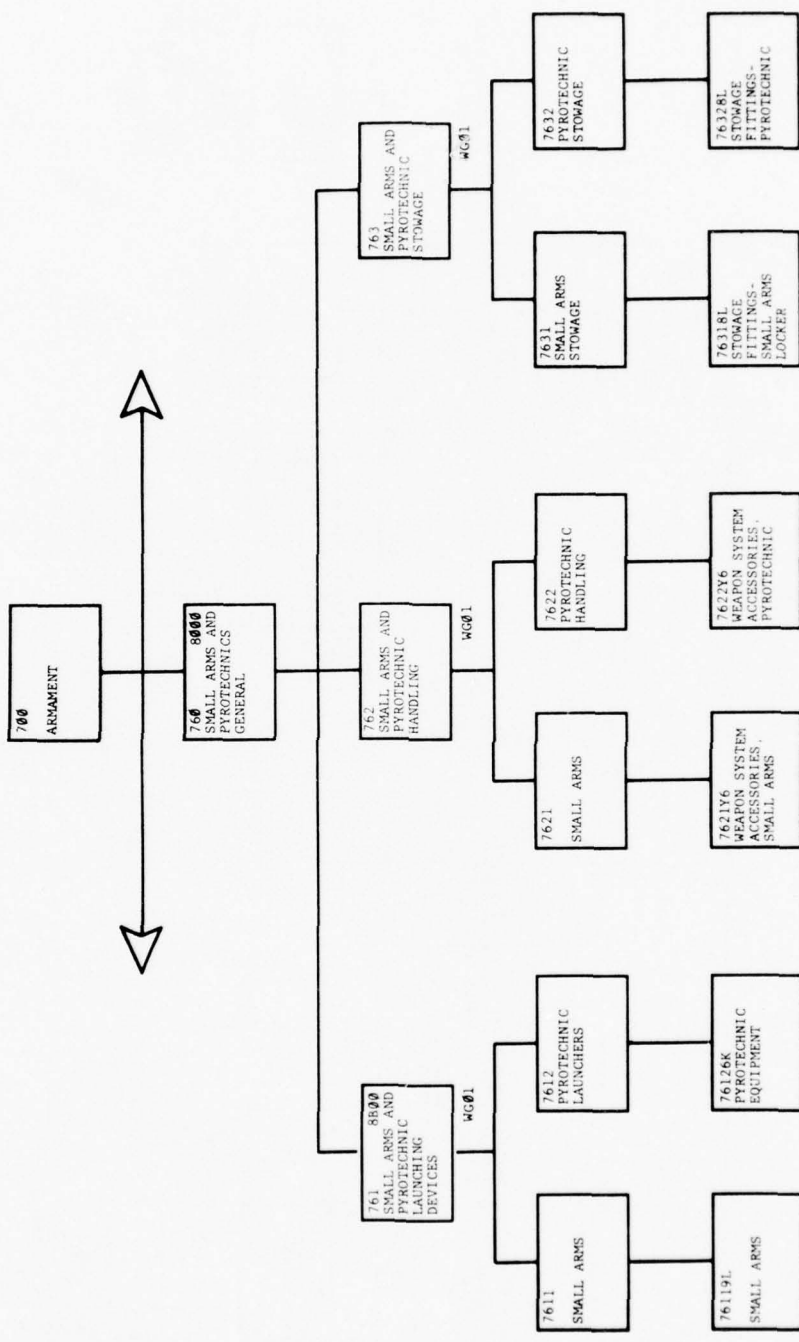
728 ASROC HEATING AND COOLING SYSTEM





NOTE: TELEMETRY EQUIPMENT  
TO BE REMOVED BY  
SHIP ALT.

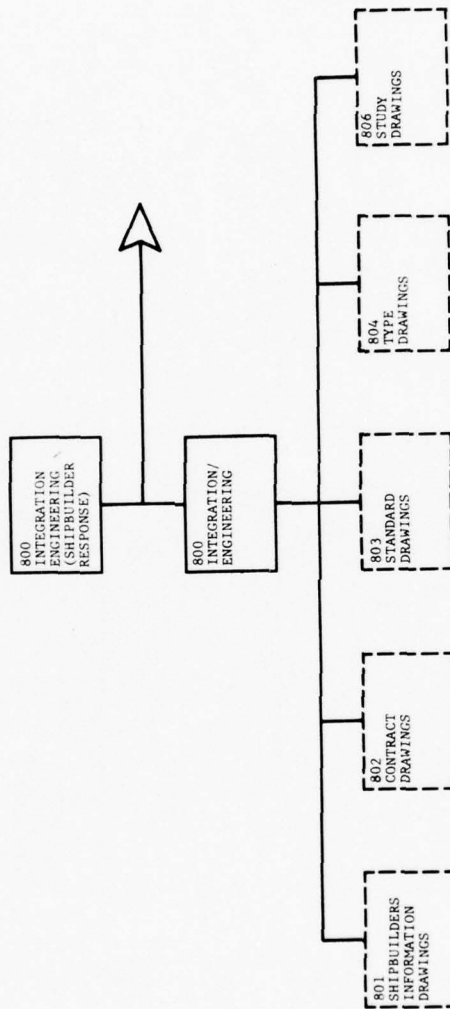


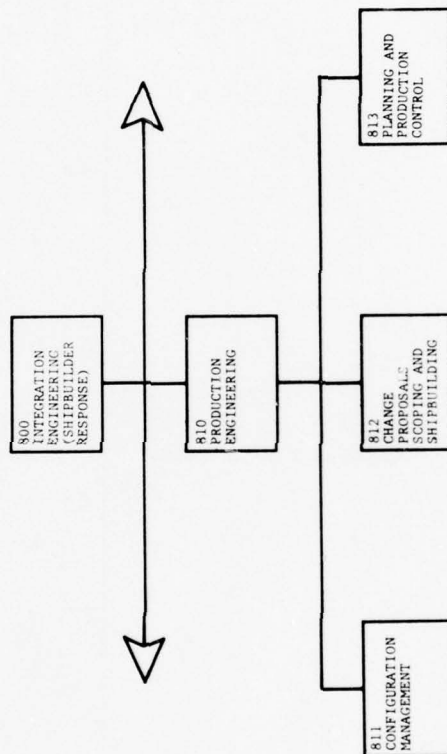


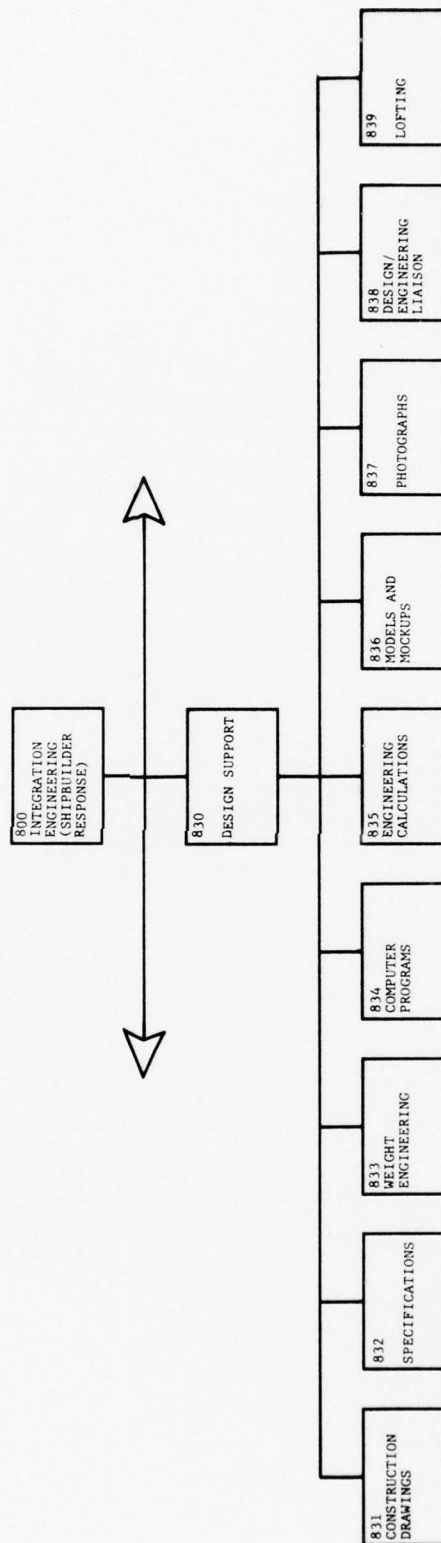
INCLUDES:  
 PISTOLS  
 RIFLES  
 SHOTGUNS  
 METASCOPE AN/PAS-6  
 NIGHT VISION MK 36 & 37

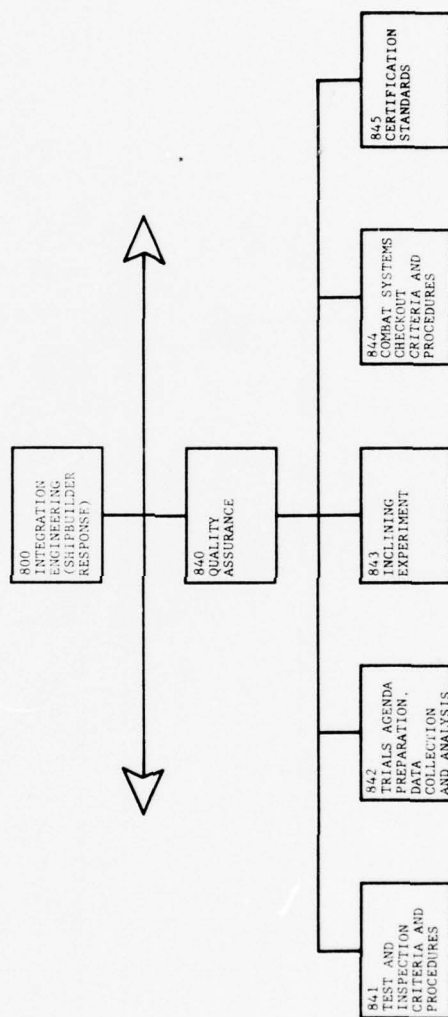




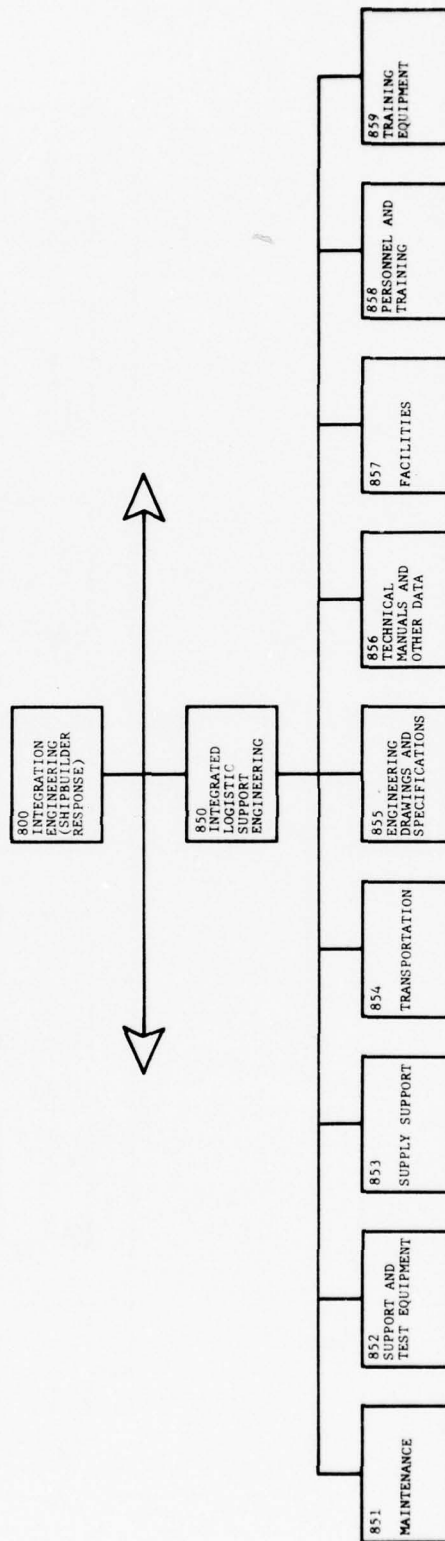


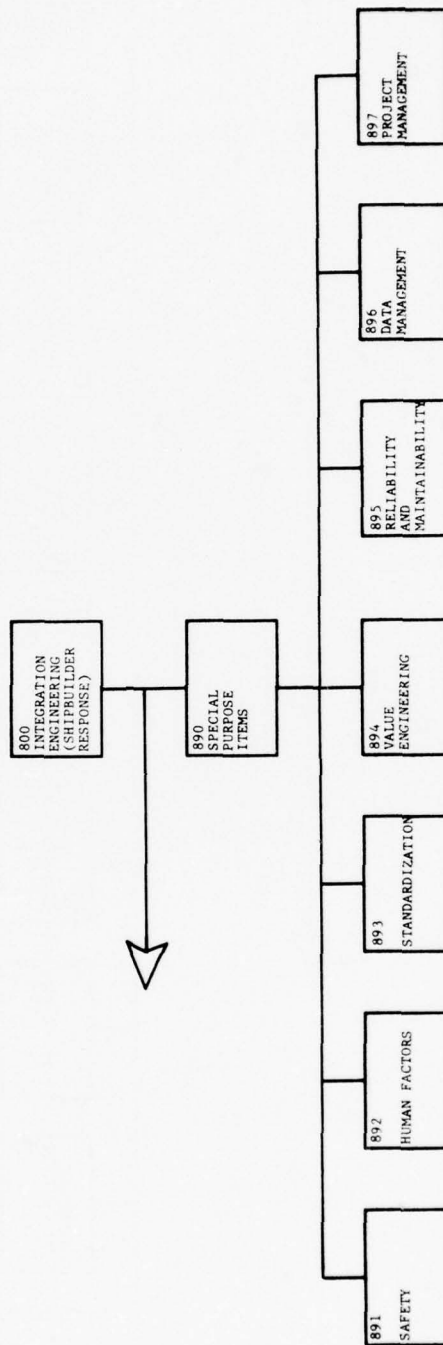












APPENDIX A  
COMPONENT DICTIONARY CODE LIST

# APPENDIX A COMPONENT DICTIONARY CODE LIST

## CDC LAPL

AA C92	ABANDON SHIP ACCESSORIES AND LIFE BOATS
AB AB-	SUPPORTS, ANTENNA (ELEX)
AC 94-003	ACOUSTIC DEVICE-SEE ALSO CONTROL ACOUSTIC DEVICE-MINESWEEPING
AD 02-006	BOILER-AUXILIARY, STEAM, WASTE HEAT
AE 10-006	METER-ELECTRICAL INDICATING, AC AND DC METERS
AF 52-013	ACTUATOR-HYDRAULIC SEE ALSO CYL-ACT LINEAR
AG 61-265	ACTUATOR-PNEUMATIC & ELECTRO-PNEUMATIC
AH 41-040	CUTTING MACHINE-OXYGEN ACETYLENE
AI 31-009	CATHODIC PROTECTION EQUIPMENT
AJ 61-273	ACTUATOR-ELECTRO MECHANICAL
AK 85-008	ADAPTER-MISSILE HANDLING, CARGO HANDLING
AL 41-122	AGITATOR-PAINT, SHAKER TYPE
AM AM-	AMPLIFIERS (ELEX/ORD)
AM	AMPLIFIERS (ELEX/ORD)
AN 33-002	AIR CONDITIONER
AO	NOT ASSIGNED
AP 88-011	VALVE-TEMPERATURE REGULATING, STEAM CONTROL
AQ 33-012	AIR CONDITIONER-WINDOW UNIT TYPE
AR 09-001	CHARGER-BATTERY, AC
AS 97-006	ANTENNA ASSEMBLY-BICONICAL OR STUB (HM&E/ELEX)
AS AS-	ANTENNAE-SIMPLE & COMPLEX (HM&E/ELEX)
AT AT-	ANTENNAE-SIMPLE (ELEX)
AU 36-001	ALARMS & SIGNALING DEVICES-HORNS, SIRENS AND WHISTLES, AIR OR STEAM
AV 41-006	CHARGER-MAGNET, PORTABLE
AW 36-005	ALARMS & SIGNALING DEVICES-WHISTLE, STEAM OR AIR
AX 41-046	CENTERING MACHINE-SINGLE SPINDLE
AY 03-007	COOLER-AIR
AZ 83-001	SEAL-STERNTURE, SUBMARINE APPLICATION
AQ 88-021	VALVE-BOILER BLOW
AI 36-003	ALARMS & SIGNALING DEVICES-BELL, BUZZER, SIREN ELECTRICAL
A2 23-009	ALARMS & SIGNALING DEVICES-LIGHT, INDICATOR, ELECTRICAL
A3 61-079	AMPLIFIER-MAGNETIC
A4 89-023	VALVE-SAFETY RELIEF, INCLUDING VACUUM BREAKERS
A5 61-082	AMPLIFIER-HYDRAULIC
A6 822	STEERING AND DIVING TOOLS AND REPAIR PARTS
A7 823	TOOLS AND EQUIPMENT O2N2 PLANT
A8 23-006	ANNUNCIATOR-MECHANICAL DROP-AC
A9 824	PERISCOPES - HOUSING FITTINGS
BA BA-	BATTERY-PRIMARY TYPE (ELEX)
BB BB-	BATTERY-SECONDARY TYPE (ELEX)
BC C9-005	BATTERY-STORAGE
BD 37-001	BEARING ASSEMBLY-STEM TUBE & STRUT
BE 41-001	BALANCING INSTRUMENT-PORTABLE
BF 85-037	BALL, NUT, & SCREW ASSEMBLY
BG C4-002	CONDENSER CHILLER-REFRIGERATION
BH 37-011	BEARING ASSEMBLY-THRUST, PIVOTED SEGMENTAL, SINGLE OR DOUBLE
BI 53-001	CAPSTAN-SEE ALSO MOORING ACCESSORIES
BJ C37	MEDICAL EQUIPMENT-PORTABLE
BK 93-011	BRAKE-PROPULSION SHAFT (REGARDLESS OF PRIME MOVER)
BL 37-013	BEARING ASSEMBLY-THRUST AND JOURNAL WITH RESONANCE CHGR
BM C5-C23	COOLING UNIT-AIR TURBINE DRIVEN
BN 37-005	BEARING ASSEMBLY-LINE SHAFT
BO	NOT ASSIGNED

CDC LAPL

BP 25-042 BENCH MARK-OPTICAL  
BQ 41-097 BENDING MACHINE-POWER OPERATED  
BR 93-003 BLENDER-AVIATION FUEL  
BS 05-030 TURBOSUPERCHARGER-CENTRIFUGAL BOILER  
BT 05-031 TURBINE-GAS  
BU 02-001 BOILER-MAIN PROPELLSION, HP STEAM  
BV 02-005 BOILER-AUXILIARY, HOT WATER  
BW 64-017 FIRE EXTINGUISHER-PORTABLE  
BX 88-027 VALVE-COMPRESSOR SHUT OFF  
BY C92 TOOLS AND ACCESSORIES  
BZ- ALARM UNITS (ELEX)  
BO MINOR LANDING CRAFT AND SMALL BOATS (INCL ALL COMMODITY CLASS 72)  
B1 43-024 BREAD SLICING MACHINE  
B2 99-017 BREATHING APPARATUS  
B3 89-001 BUOY-MESSENGER SEE ALSO UNDERWAY REPLEN ACC  
B4 03-008 COOLER-AIR  
B5 30-001 BURNER-OIL, PRESSURE ATOMIZING, BOILER SERVICE  
B6 30-002 BURNER-OIL, PRESSURE ATOMIZING, GUN TYPE  
B7 30-004 BURNER-OIL, VAPORIZING PCT  
B8 30-005 BURNER-OIL, ROTARY HORIZONTAL  
B9 30-007 BURNER-CATALYTIC  
CA CA- COMMUTATOR ASSEMBLY-SONAR (ELEX)  
CB CB- CAPACITOR BANK (ELEX)  
CC 32-019 CABINET, ICE CREAM SEE ALSO REFRIGERATOR  
CD 28-005 CABINET, RESOLVER CONTROL-AUTOMATIC PLOTTING  
CE 41-005 CABINET, BLAST CLEANING  
CF 85-038 CABLE MACHINERY-DECK  
CG CG- CABLE ASSEMBLY-RF (ELEX)  
CH C15 GASOLINE AND JP - FUEL SYSTEMS TOOLS AND FITTINGS  
CI 43-027 CABINET, DOUGH PROOFING  
CJ 54-006 CAMERA-COPYING, LITHOGRAPHIC  
CK CK- CRYSTAL KITS (ELEX)  
CL 99-002 CARBON DIOXIDE  
CM CM- COMPARATOR (ELEX)  
CN CN- COMPENSATOR (ELEX)  
CO C- CONTROLS (ELEX/ORD)  
CO CONTROLS (ELEX/ORD)  
CP CP- COMPUTER (ELEX/ORD)  
CP COMPUTER (ELEX/ORD)  
CQ 85-042 CARRIAGE/CAR/CART/TRACTOR/TRAILOR  
CR CR- CRYSTALS (ELEX)  
CS 05-032 BASE/ENCLOSURE-GAS TURBINE  
CT 41-147 CARTON MACHINE  
CU CU- COUPLER (ELEX)  
CV CV- CONVERTER (ELEX/ORD)  
CV CONVERTER (ELEX/ORD)  
CW CW- RADOMES (ELEX)  
CX CX- CABLE ASSEMBLIES, NON RF (ELEX)  
CY CY- CASES AND CABINETS (ELEX)  
CZ 32-003 CHILLER-WATER  
CO 88-029 VALVE-REGULATING, WATER FLOW, FOR REFRIGERATION SYSTEMS  
CI 76-004 CHLORINATOR  
C2 31-032 CHOCK-ROLLER, DECK AND STERN  
C3 14-001 CIRCUIT BREAKER-NAVY TYPE AOB AND AOBLF  
C4 14-002 CIRCUIT BREAKER-NAVY TYPE NOB AND NLF  
C5 14-003 CIRCUIT BREAKER-NAVY TYPE ACB



**CDC LAPL**

**C6** 14-004 CIRCUIT BREAKER-NAVY TYPE ALB  
**C7** 14-006 CIRCUIT BREAKER-OTHER THAN AQB, NOB, ACB,ALB TYPES  
**C8** 41-148 CLEANING MACHINE-ALL TYPES EXCEPT BLAST CLNG CAB  
**C9** 59-006 CLOSER-DOOR HYDRAULIC  
**DA** DA- DUMMY LOAD (ELEX)  
**DB** 33-007 DAMPER-ACTUATOR AND POSITIONER  
**DC** 40-006 DAMPER-VENT, COMBUSTION CONTROL  
**DD** 56-001 DAVITS, ALL TYPES  
**DE** 28-003 DEAD RECKONING EQUIPMENT  
**DF** 85-024 DEFLECTOR, JET BLAST  
**DG** 46-012 DEGAUSSING MAGNETIC MEASUREMENT SYSTEM  
**DH** 41-011 DEGREASER  
**DI** DI- DISPENSER-CHAFF (ELEX)  
**DJ** 44-002 DEHUMIDIFIER-DESICCANT ELECTRIC  
**DK** 44-009 DEHUMIDIFIER-SPACE, MECH REFRIG SELF CONTAINED  
**DL** 32-005 DEHYDRATOR-REFRIGERATION  
**DM** 44-001 DEHYDRATOR-FILER, DESICCANT, HGH PRES AIR, SELF REAC  
**DN** 44-004 DEHYDRATOR-NON REACTIVATING  
**DO** NOT ASSIGNED  
**DP** 08-007 DEMINERALIZER-WATER, ION EXCHANGE  
**DQ** 99-027 DESUPERHEATERS-ALL TYPES  
**DR** 06-205 COMPRESSOR UNIT-AIR  
**DS** 33-005 CAMPER-MECHANICAL EXHAUST VENTILATION SYS  
**DT** DT- DETECTING HEADS (ELEX)  
**DU** 54-021 DEVELOPING MACHINE-BLACK AND WHITE PROCESS  
**DV** 43-001 DISH WASHING MACHINE  
**DW** 41-049 DISINTEGRATING MACH-METAL, ELEC ARC  
**DX** 32-014 DISPENSER-DRINKING WTR SEE ALSO DRNG FTN(67-006)  
**DY** DY- DYNAMOTORS (ELEX)  
**DZ** 32-032 DISPENSER-MECHANICALLY REFRIGERATED, MILD  
**DO** 09-002 CHARGER-BATTERY, D.C.  
**D1** 41-146 DISPENSER-TAPE, ELECTRIC  
**D2** 32-031 DISPLAY CASE-MECH REF,SELF CONTND/NON-REFR  
**D3** 06-002 COMPRESSOR-RECIPROCATING  
**D4** 08-001 DISTILLATION UNIT  
**D5** 52-015 DESURGER-HYDRAULIC  
**D6** 32-027 DISPENSER-MECH REF,OTHR THN MLK SEE CAB,ICE CR/FREEZR  
**D7** 09-005 DISTILLATION UNIT-VAPOR COMPRESSION  
**D8** 85-011 DOLLY-BOATSTORAGE SEE ALSO TRK/DOLLY/CRADLE ASS  
**D9** 31-034 DOOR-ROLLER CURTAIN, SHIPBRD, HAND CR PWR CPER  
**EA** 74-001 EDUCTOR-LIQUID  
**EB** 49-001 CARBURETOR  
**EC** 73-010 EJECTOR-GARBAGE AND TRASH DISPOSAL  
**ED** 07-011 HEATER-FLUID  
**EF** 88-031 VALVE-BURBLER  
**EF** 73-012 EJECTOR-SIGNAL  
**EG** 73-001 EJECTOR ASSEMBLY-AIR  
**EH** E- HOISTS (ELEX)  
**EI** NOT ASSIGNED  
**EJ** 11-003 CONVERTER  
**EK** 849 NITROGEN CHARGING ASSEMBLY  
**EL** 59-001 ELEVATOR-ELECTRO MECHANICAL  
**EM** 15-013 CONTROLLER-AC  
**EN** 16-010 GENERATOR-GAS  
**EO** NOT ASSIGNED  
**EP** 59-002 ELEVATOR-AIRCRAFT LIFTING



# CDC LAPL

EQ 41-050 EMBOSSING MACHINE-METAL & CRDBRD ALSO OFF MACH ACC  
 ER 16-012 BENCH-LIQUID OXYGEN CONVERTER FILL  
 ES 66-001 ENGINE-DIESEL, SHIP PROPULSION AND SHIP'S SERVICE, 2 & 4 CYCLE  
 ET 22-022 SWITCHBOARD-MINESWEEPING  
 EU 88-037 VALVE-REFRIGERATION SHUT OFF, SMALLER THAN 3/4 IN  
 EV 66-005 ENGINE-DIESEL, 2 & 4 CYC, TYPE B  
 EW 16-014 BOOSTER-GAS  
 EX 66-006 ENGINE-DIESEL, ACA-MAGNETIC MINESWP PROP & AUX 4 CYC  
 EY 66-017 ENGINE-GASOLINE AIR OR FLUID COOLED  
 EZ 18-007 MOTOR GENERATOR  
 EO 88-042 VALVE-FLOAT, LIQUID LEVEL CONTROL, REFRIGERATION SYSTEMS  
 E1 66-019 ENGINE-GASOLINE, BOAT PROP, OUTBOARD MOTOR  
 E2 66-020 ENGINE-STEAM, RECIPROCATING, MN PROP & AUX SERVICE  
 E3 88-044 VALVE-STEAM SEAL MANIFOLD  
 E4 88-045 VALVE-GUARDING  
 E5 41-051 ENGRAVING MACHINE PANTOGRAPH  
 E6 59-005 ESCALATOR  
 E7 09-011 EXCHANGER, ION  
 E8 93-001 EXPANSION JOINTS-PIPE, PACKLESS  
 E9 88-046 VALVE-TRIP THROTTLE  
 FA 40-001 FAN-VANEAXIAL AND/OR TUBEAXIAL  
 FB 18-009 MOTOR GENERATOR  
 FC 40-002 FAN-CENTRIFUGAL  
 FD 20-002 RHEOSTAT  
 FE 40-003 FAN-CIRCULATING  
 FF 40-009 FAN-CENTRIFUGAL, CARBON DIOXIDE REMOVAL SYS  
 FG 99-020 FEEDRAIL-BRIDGE CRANE  
 FH 41-076 FILING MACHINE-SAW, BLADE  
 FI C56 BOILER FEEDWATER TEST AND TREATMENT  
 FJ 09-010 FILLER-PORTABLE BATTERY WATER  
 FK 48-002 FILTER-FLUID, PRESSURE  
 FL F- FILTER UNITS (ELEX)  
 FM 20-006 RHEOSTAT  
 FN FN- FURNITURE (ELEX)  
 FO NOT ASSIGNED  
 FP 88-043 VALVE-CROSSOVER AND MANIFOLD  
 FQ 43-034 FILTER-COOKING GREASE  
 FR FR- FREQUENCY MEASURING DEVICES (ELEX)  
 FS C55 FUEL OIL STOWAGE AND EQUIPMENT  
 FT 31-023 FITTINGS-HULL SEE ALSO TOWING-ACC, MOORING ACC  
 FU 24-002 FIXTURE-LIGHTING  
 FV 48-006 FILTER-AIR, WET OR DRY ELEMENTS  
 FW 76-003 FILTER-WATER PURIFICATION  
 FX 31-012 FLAME ARRESTER-VENTILATION  
 FY 54-015 FOLDING MACHINE-PAPER  
 FZ 43-012 GRINDERS AND CUTTERS-FOOD ELECTRICAL  
 FO 16-011 FURNANCE ASS OXY CANDLE ROUND AND SQUARE  
 F1 43-059 FOOD WARMER-RADIANT, OVERHEAD, ELECTRIC  
 F2 41-016 FORGE-OIL BURNING ELEC OR OTHER ALSO FURNACE  
 F3 41-053 FORGING MACHINE-HAMMER VERTICAL  
 F4 41-017 FORMING MACHINE-SHEET METAL  
 F5 54-004 FRAME PRINTING  
 F6 43-006 FRYERS-DEEP FAT, ELECTRIC  
 F7 85-046 FUEL DISPERSING SYS  
 F8 41-019 FURNANCE- ELECTRIC  
 F9 41-020 FURNANCE-OIL BURNING

CDC LAPL

GA 45-003 GAGE-LIQ QNTY MECHANICAL SEE ALSO INDICATOR AND METER  
GB 45-004 GAGE-LIQUID QUANTITY HYDRAULIC/PNEUMATIC  
GC 45-007 GAGE-PRESSURE  
GD 45-009 GAGE-DEPTH SUBMARINE  
GE 43-002 GALLEY EQUIPMENT-ELECTRICAL  
GF 43-009 GARBAGE DISPOSAL MACHINE  
GG 31-005 GATE-STEER SEE ALSO DOOR OR HATCH  
GH G- GENERATOR-POWER (ELEX)  
GI 867 OPERATING GEAR MISCELLANEOUS REPAIR PARTS  
GJ 43-047 DOUGHNUT MACHINE-CUTTING AND FRYING  
GK 69-028 GEAR-TURNING/JACK DEVICE  
GL 69-029 GEAR-TILTING  
GM 69-006 GEAR ASSEMBLY-SPEED DECREASER, MAIN PROP SERVICE  
GN 69-016 GEAR ASSEMBLY-SPEED DECREASER, AUX SERVICE  
GO GO- GONICMETERS (ELEX)  
GP GP- GROUND RODS (ELEX)  
GQ B51 BOILER FEEDWATER SYSTEM CONTROL FITTINGS  
GR 23-008 SEMAPHORE-MECHANICAL SIGNAL  
GS 43-044 GALLEY UNITS-COMPACT  
GT 16-006 GENERATOR-DC OR AC  
GU 24-004 FIXTURE-LIGHTING FLUORESCENT  
GV 24-006 FIXTURE-LIGHTING MERCURY VAPOR  
GW 16-008 GENERATOR-SMOKE, MECHANICAL  
GX 16-009 GENERATOR-OXYGEN/NITROGEN  
GY 16-001 GENERATOR-BATTERY CHARGING  
GZ 70-001 GOVERNOR-MECHANICAL  
GO FUEL GELLING UNIT MIG - 10  
GI 70-005 GOVERNOR-HYDRAULIC  
GJ 88-072 GOVERNOR-PUMP  
GK 70-013 GOVERNOR-ELECTRO HYDRAULIC  
GL 70-014 GOVERNOR-ELECTRIC  
GS 23-004 SEARCHLIGHT-SIGNAL  
G6 41-057 GRINDING MACHINE-CYCLINDRICAL  
G7 41-060 GRINDING MACHINE-GLASS  
G8 41-063 GRINDING MACHINE-VALVE  
G9 41-065 GRINDING MACHINE-SURFACE, RECIPROCATING  
HA 85-031 HANDLING GEAR-GUIDANCE CAPSULE  
HB 85-045 HANGAR-AIRCRAFT  
HC HC- HOLDER, CRYSTAL (ELEX)  
HD H- ENVIRONMENTAL APPARATUS (ELEX)  
HE 07-002 HEATER-FLUID, FUEL OIL AND LUBE OIL, STEAM HEATED  
HF 07-003 HEATER-WATER AND AIR  
HG 26-015 PROJECTOR-MOTION PICTURE, SOUND, SUPER 8MM  
HH 07-004 HEATER-WATER, STM/HT WTR HTD, INST, STM WTR CVTR  
HI 07-001 HEATER-FLUID, SEA WATER, STEAM HEATED  
HJ 07-005 HEATER-FLD, DEAERATING, BOILER FDWTR, TYPES I & II  
HK 07-006 HEATER-IMMERSION, ELECTRIC  
HL 07-007 HEATER-SPACE ELEC, TYP D RADIANT, TYPE T TUR, RAD PANL  
HM 26-016 PROJECTOR-MOTION PICTURE, SOUND, SUPER 16MM  
HN 07-013 HEATER-WTR, ELECTRIC STORAGE TYPE  
HO NOT ASSIGNED  
HP 07-016 HEATER-COOLANT ENGINE, OIL FIRED OR ELECTRIC  
HQ 07-022 HEATER-VENTILATION, VENT DUCT, ELEC, TYP 51-61  
HR 07-023 HEATER-SPACE ELECTRIC, BLOWER, TYPE B  
HS H- HEAD, HAND, AND CHEST SETS (ELEX)  
HT 07-017 HEATER-AIR CIRCULATING UNIT, STEAM OR HT WTR HTD

# CDC LAPL

RU 07-045 HEATING ELEMENTS-ELEMENTS-ELECTRICAL  
 RV 07-036 HEATING UNIT-ELEC. CONTRLD TEMP FOR STRSS RELF PRHTG  
 RW 58-001 HOIST-WIREROPE ELECTRIC  
 RX 58-002 HOIST-MANUAL  
 HY 58-003 HOIST-ELECTRO HYDRAULIC & ELECTRO-MECHANICAL  
 HZ 58-004 HOIST-CHAIN ELECTRIC  
 HO 61-116 HYDROSTAT. CONTRCL  
 H1 58-005 HOIST-PNEUMATIC  
 H2 58-006 HOIST-HYDRAULIC  
 H3 85-025 HOIST-WINDSCREEN  
 H4 87-009 HOIST-RODMETER. U/W LOG  
 H5 52-033 HOIST ASSEMBLY-CYL & RAM TYP FOR COMMUN MAST  
 H6 41-069 HOISTING MACHINE-HORIZONTAL OR VERTICAL  
 H7 38-010 HUMIDIFIER  
 H8 52-016 HYDRAULIC MECHANISM SEE ALSO MISSLE FNDG SYS-HYD  
 H9 31-033 HYDROFOIL ASSEMBLY  
 IA 64-018 FIRE EXTINGUISHING SYSTEM  
 IB 66-002 ENGINE-DIESEL. TWO CYCLE  
 IC 865 IC COMMUNICATION EQUIPMENT  
 ID ID- INDICATOR-NON CATHODE RAY TUBE (ELEX/CRD)  
 IO INDICATOR-NON CATHODE RAY TUBE (ELEX/CRD)  
 IE 66-018 ENGINE-GASOLINE  
 IF 66-021 ENGINE-DIESEL. NONMAGNETIC  
 IG 66-022 ENGINE-DIESEL. MODEL 645  
 IH 69-026 GEAR ASSEMBLY-SPEED INCREASER  
 II 71-001 DISTRIBUTOR-IGNITION SYSTEM  
 IJ 73-011 EJECTOR-SEWAGE  
 IK 78-018 COUPLING ASSEMBLY  
 IL IL- INSULATORS (ELEX)  
 IM IM- INTENSITY MEASURING DEVICES (ELEX)  
 IN 79-003 MUFFLER-DRY  
 IO NOT ASSIGNED  
 IP IP- INDICATORS-CATHODE RAY TUBE (ELEX)  
 IO 83-015 CONTROL BOARD-CONTROLLABLE PITCH PROPELLER. EMER. PITCH CONTROL  
 IR 91-004 LAUNDRY PRESS-COMMERCIAL  
 IS 859 AIR CONDITIONING REFRIGERATION TOOLS AND ACCESSORIES  
 IT 92-020 TANK-LUBE OIL STORAGE AND CONDITIONING ASSEMBLY  
 IU 94-004 ACOUSTIC DEVICE  
 IV 94-005 ACOUSTIC DEVICE  
 IW NOT ASSIGNED  
 IX 97-012 SUB ASSEMBLIES-PERISCOPE  
 IY 97-018 CAMERA ACCESSORIES-PERISCOPE  
 IZ 99-029 RECEIVER-FUELING PROBE  
 IO NOT ASSIGNED  
 II NOT ASSIGNED  
 IZ 864 NAVIGATIONAL SIGNAL LIGHTS  
 I3 NOT ASSIGNED  
 I4 NOT ASSIGNED  
 I5 NOT ASSIGNED  
 I6 NOT ASSIGNED  
 I7 NOT ASSIGNED  
 I8 NOT ASSIGNED  
 I9 NOT ASSIGNED  
 JA 43-028 ICE CREAM CUP FILLING MACHINE- HAND OPERATED  
 JB 32-017 ICE CREAM FREEZER-PWR OPER WITH INTGRL MCH REF EQ  
 JC 32-022 ICE MAKING MACHINE-MECH REFRIG SELF CNTAINED

# CDC LAPL

JD J- INTERFACE UNITS (ELEX)  
JE 32-004 ICE MAKING PLANT  
JF 41-032 IMPREGNATING EQUIPMENT  
JG 30-006 INCINERATOR SEE ALSO BURNER  
JH 27-008 SALINITY INDICATING EQUIPMENT  
JI NOT ASSIGNED  
JJ 38-002 INDICATOR-TEMPERATURE, ELECTRICAL  
JK 28-028 NAVIGATION EQUIPMENT  
JL 38-007 INDICATOR-BOILER SMOKE  
JM 38-014 INDICATOR-SALINITY & SALINITY CELL  
JN 38-015 INDICATOR-PRES DIFFERTL, LIO/STM LVL, DIR OR REM  
JO NOT ASSIGNED  
JP 38-016 INDICATOR-MECHANICAL TACHOMETER  
JQ 38-020 INDICATOR-LIO LVL, FLOW, WATER AND FUEL  
JR 45-001 INDICATOR-SIGHT LIQUID, FLAT  
JS 45-002 INDICATOR-SIGHT LIQUID, TUBULAR  
JT 45-005 INDICATOR-METER, DIFFERENTIAL PRESSURE  
JU 61-025 INDICATOR-PORTABLE SHIP CONTROL  
JV 41-111 VULCANIZER - RUBBER COVERED CABLE  
JW 29-001 INJECTOR- FUEL DIESEL ENGINE NOZZLE NCN-MET TYP  
JX 29-002 INJECTOR-FUEL, DIESEL ENGINE, UNIT METERING AND PRES  
JY 43-060 INJECTOR-RINSE AGENT FOR DISHWASHING MACHINE  
JZ 887 MEASURING AND INDICATING INSTRUMENTS  
JO 31-011 TENSION UNIT-HYDRAULIC RAM  
J1 27-009 INTERCOMMUNICATION STATION  
J2 97-002 MAST-ANTENNA  
J3 97-013 MAST-SNORKEL  
J4 689 NUCLEAR POWER PLANT - COOLANT DISCHARGE SYSTEM VALVE  
J5 85-035 JACK ASSEMBLY-HAND, SCREW, HYDRAULIC/PNEUMATIC OPR  
J6 41-034 JOINTER-WOODWORKING  
J7 27-010 TELEPHONE EQUIPMENT-DIAL  
J8 43-008 KETTLE-STEAM JACKETED  
J9 41-070 KEY DUPLICATING MACHINE  
KA 40-004 DRIER-HAND, ELECTRIC  
KB 86-003 DRIER-PHOTOGRAPHIC  
KC 41-014 DRILLING MACHINE-FLOOR OR BENCH  
KD 43-050 TABLE-FOOD WARMER, ELECTRIC/STEAM HEATED  
KE 54-014 DRILLING MACHINE-PAPER  
KF 67-006 DRINKING FOUNTAIN  
KG 52-001 DRIVE ASSEMBLY-ELECTRO HYDRAULIC AMMUN HOIST  
KH 52-004 DRIVE ASSEMBLY-ELECTRO HYD HST, VERT TUB., 12.75RKT  
KI 16-005 TACHOMETER SEE ALSO INDICATOR-MECHANIC TACHOMETER  
KJ 52-007 DRIVE ASSEMBLY-ELECTROHYDRAULIC HOIST, 3000# MIS TRAV  
KK 88-063 VALVE-PRESSURE REGULATING  
KL 85-004 DRIVE ASSEMBLY-SLIDING BLOCK  
KM 91-008 DRY CLEANING PRESS  
KN 91-007 DRY CLEANING UNIT ASS-AUTO, SYNTHET SOLVENT TYPE  
KO NOT ASSIGNED  
KP 54-018 DRYING MACHINE BLUEPRINT  
KQ 91-002 DRYING TUMBLER-LAUNDRY  
KR 59-003 DUMBWAITER  
KS 54-002 DUPLICATING MACHINE-OFFSET SEE ALSO CFF MACH ACC  
KT 41-015 DYNAMOMETER  
KU 41-131 TANK-HOT DIP  
KV 92-005 TANK-DIESEL ENGINE, AIR STARTING  
KW 92-001 TANK-STORAGE



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KX 88-104 VALVE-STOP CHECK  
KY KY- KEYING DEVICES (ELEX)  
KZ 88-117 VALVE SUBPLATE  
KO 88-125 VALVE-PRESSURE CONTROL  
K1 88-129 VALVE-PRESSURE REGULATING  
K2 88-130 VALVE-HYDRAULIC CONTROL  
K3 01-010 PUMP, ROTARY PISTON, FIXED OR VARIABLE DELIVERY  
K4 88-134 VALVE-SHUTTLE  
K5 88-135 VALVE-HYDRAULIC  
K6 88-138 VALVE-CHECK, INLINE, UNDER \$25.00  
K7 01-025 PUMP, PORTABLE SUBMERSIBLE  
K8 88-142 VALVE-CHECK, INLINE, \$25.00 AND ABOVE  
K9 88-158 VALVE-TEST CASTING  
LA 24-009 LANTERN-ELECTRIC, BATTERY TYPE  
LB 41-036 LATHE-METAL WORKING  
LC LC- TOOLS-LINE CONSTRUCTION (ELEX)  
LO 91-012 LAUNDRY EQUIPMENT  
LF 23-002 LIGHT-INDICATOR  
LF 24-008 LIGHT-NAVIGATIONAL MARINE  
LG 54-024 LIGHT-ARC PHOTOLITHOGRAPHIC  
LH 16-015 LIQUIDIFIED GAS STORAGE AND CHARGING SYS  
LI NOT ASSIGNED  
LJ 54-007 LITHOGRAPHIC, NEGATIVE AND PLATE MAKING  
LK 99-020 LOCK-ELECTROMECHANICAL  
LL 28-018 LOCKER-BINOCULAR DRYING  
LM 26-013 LOUDSPEAKER-MOTION PICTURE PROJECTOR  
LN 65-001 LUBRICATOR-MECHANICALLY OR HAND OPERATED  
LO NOT ASSIGNED  
LP 65-002 LUBRICATOR-AIR OPERATED  
LO C16 LADDERS AND ACCESS CLOSURE EQUIPMENT  
LR 845 LUBE OIL PIPING SYSTEM REPAIR PARTS  
LS LS- LOUDSPEAKERS (ELEX)  
LT 41-037 LATHE-WOODWORKING  
LU 88-159 VALVE-DISTRIBUTOR LUBRICATION  
LV 41-141 UNDERCUTTER - ARMATURE, MICA, ELECTRICAL OPERATED  
LW C20 UNDERWAY REPLENISHMENT TOOLS AND ACCESSORIES  
LX 32-008 UNION TUBE - REFRIGERATION  
LY 43-005 UPNS -COFFEE  
LZ 88-162 VALVE-SHEARING  
LO 88-169 VALVE-LINE BLIND  
L1 LAUNCHER STAND-WEAPON SYSTEM  
L2 LAUNCHER GUIDES-WEAPON SYSTEM  
L3 TRAIN ASSEMBLY-WEAPON SYSTEM  
L4 ELEVATION ASSEMBLY-WEAPON SYSTEM  
L5 AMPLIFIER, POWER DRIVE-WEAPON SYSTEM  
L6 RAMMER-LOADER ASSEMBLY-WEAPON SYSTEM  
L7 88-170 VALVE AND TRAP MANIFOLD  
L8 88-177 VALVE-SPECIAL STOP CHECK  
L9 88-186 VALVE-FLOW FUSE  
MA MA- MAGAZINE-MAGNETIC TAPE OR WIRE (ELEX)  
MB 68-001 MAGNETO-IGNITION  
MC 32-006 MANIFOLD-REFRIGERATION  
MD MD- MODULATORS, DEMODULATORS, AND DISCRIMINATORS (ELEX)  
ME ME- METERS (ELEX)  
MF MF- MAGNETS OR MAGNETIC FIELD GENERATORS (ELEX)  
MG 45-008 MANOMETER-U TUBE AND OTHER TYPES

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MH 91-006 MARKING MACHINE-LAUNDRY  
 MI M- MICROPHONES (ELEX)  
 MJ 85-030 MAST-HINGED  
 MK MK- MISCELLANEOUS KITS (ELEX)  
 ML ML- METEOROLOGICAL DEVICES (ELEX)  
 MM 43-016 MEAT SLICING MACH-ELEC & MANUAL SEE ALSO FOOD CUTTER  
 MN 43-021 MEAT TENDERIZER-ELECTRIC  
 MQ NOT ASSIGNED  
 MP 10-001 METER-VOLUMETRIC, POS DISPL, FUEL OIL, WTR, GAS, JP-5, AL T  
 MQ 10-002 METER-FLOWRATE INDICATING, FLOAT TYPE RECTAMETER  
 MR 10-003 METER-IMPELLER TYPE LIQUID VELOCITY  
 MS 10-004 METER-VENTURI TYPE  
 MT MT- MOUNTINGS (ELEX)  
 MU MU- MEMORY UNITS (ELEX)  
 MV 41-042 MILLING MACHINE-HORIZONTAL  
 MW 41-043 MILLING MACHINE-WOODWORKING, VERTICAL, RCRING  
 MX MX- MISCELLANEOUS EQUIPMENT (ELEX)  
 MY 41-038 MIXER-LIQUID, PORTABLE  
 MZ 43-004 MIXING MACHINE-ELECTRIC, FOOD AND FLUID  
 MO 20-031 SEXTANT, MARINE  
 M1 43-035 MOLDING MACHINES-MEAT, FISH  
 M2 C26 ANCHORING AND MOORING APPLIANCES  
 M3 41-089 MORTISER-HOLLOW CHISEL  
 M4 17-023 MOTOR-AC/DC 0.25 HORSEPOWER AND SMALLER  
 M5 31-039 SONAR DOME WINDOW SYSTEM  
 M6 10-005 METER-FLOWRATE INDICATING, VANE TYPE  
 M7 17-001 MOTOR-AC OR DC  
 M8 31-040 TENSIONING DEVICE-TORSION BAR  
 M9 E32 MISCELLANEOUS FLAG ALLOWANCES, OFFICE MACHINES  
 N4 32-021 CARBONATOR-SODA FOUNTAIN  
 NB 13-013 TRANSFORMERS-REPAIRABLE AND NON-REPAIRABLE  
 NC 32-025 ICE CREAM FREEZER  
 ND 33-004 CHILLER-WATER, AIR CONDITIONING  
 NE 61-080 AMPLIFIER-ELECTRONIC  
 NF 52-005 TRANSMISSION-HYDRAULIC, FIXED OR VARIABLE DELIVERY SEE ALSO POWER UNIT  
 NG 69-011 TRANSMISSION-MECHANICAL  
 NH 27-005 TRANSMITTER-MECHANICAL  
 NI NOT ASSIGNED  
 NJ 27-006 TXMT-LIC LVL AND/OR FLOW, CAP, FLOAT, IND, RADIOACT, RES AND SONIC TYPE  
 NK 27-021 TRANSMITTER-LIQUID LEVEL, ELECTRICAL  
 NL 28-024 TRANSMITTER-NAVIGATIONAL  
 NM 61-085 TRANSMITTER-TEMPERATURE SEE ALSO INDICATOR - TEMPERATURE, ELEC RESIST  
 NN 27-001 TRANSMITTER/INDICATOR-ELECTRICAL TRANSMITTER TYPES  
 NO NOT ASSIGNED  
 NP 54-022 PRINTING MACHINE-BLUEPRINT  
 NQ 85-043 STAND-MISSILE  
 NR 88-192 VALVE-PRESSURE REGULATING, HIGH PRESSURE AIR  
 NS STEEL PLATE  
 NT 88-193 VALVE-FLOW CONTROL  
 NU 88-201 VALVE-OFFICE  
 NV 77-001 TRAP-STEAM AND/OR AIR  
 NW 37-016 BEARING-JOURNAL, PIVOTED PAD/SHOE  
 NX 38-021 INDICATING SYSTEM-LIQUID LEVEL, PNEUMATIC  
 NY 41-002 BALANCING MACHINE-DYNAMIC, STATIC, HORIZONTAL  
 NZ 41-031 MACHINE-HOSE ASSEMBLY, REPAIR AND CUTOFF  
 NO 93-004 NOZZLE-PRESSURE FUEL SERVICING



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N1 C24 NAVIGATION EQUIPMENT AND ACCESSORIES  
N2 28-027 NAVIGATION EQUIPMENT-PLOTTING SYS SEE ALSO PLTG TABLE  
N3 28-026 NAVIGATION EQUIPMENT-DEAD RECKONING EQUIPMENT  
N4 28-001 NAVIGATION PLOTTING BOARDS  
N5 28-011 NAVIGATIONAL CLOCKS  
N6 31-041 DOOR-HINGED-HAND OPERATED  
N7 64-001 NOZZLE-FIRE HOSE SEE ALSO DAMAGE CONTROL ACC  
N8 64-003 NOZZLE-MONITOR TYPE  
N9 64-004 NOZZLE-WATER QUENCH  
CA 0A- MISCELLANEOUS GROUPS (ELEX)  
OB 0B- MULTIPLEXER AND/OR DEMULTIPLEXER GROUPS (ELEX)  
OC 0C- OCEANOGRAPHIC DEVICES (ELEX)  
OD 0D- INDICATOR GROUPS (ELEX/ORD)  
OE 0E- INDICATOR GROUPS (ELEX/ORD)  
OF 0F- ANTENNA GROUPS (ELEX)  
OG 0G- ADAPTER GROUPS (ELEX)  
OH 0H- AMPLIFIER GROUPS (ELEX)  
OI 0I- SIMULATOR GROUPS (ELEX)  
OJ 0J- OSCILLATORS (ELEX)  
OK 0K- CONSOLES AND CONSOLE GROUPS (ELEX/ORD)  
OL 0L- CONSOLES AND CONSOLE GROUPS (ELEX/ORD)  
OM 0M- CONTROL GROUPS (ELEX/ORD)  
ON 0N- CONTROL GROUPS (ELEX/ORD)  
OO 0O- DATA ANALYSIS AND DATA PROCESSING (ELEX)  
OP 0P- MODULATOR AND/OR DEMODULATOR GROUPS (ELEX)  
OQ 0Q- INTERCONNECTING GROUPS (ELEX)  
OR 0R- NOT ASSIGNED  
OS 0S- POWER SUPPLY GROUPS (ELEX/ORD)  
OT 0T- POWER SUPPLY GROUPS (ELEX/ORD)  
OU 0U- TEST SET GROUPS (ELEX)  
OV 0V- RECEIVER GROUPS (ELEX)  
OW 0W- OSCILLOSCOPE-TEST (ELEX)  
OX 0X- TRANSMITTER GROUPS (ELEX)  
OY 0Y- CONVERTER GROUPS (ELEX)  
OZ 0Z- GENERATOR GROUPS (ELEX)  
P1 01- TERMINAL GROUPS (ELEX)  
P2 02- CODER, DECODER, INTERROGATOR, TRANSPONDER GROUPS (ELEX)  
P3 03- RADAR SET GROUPS (ELEX/ORD)  
P4 04- RADAR SET GROUPS (ELEX/ORD)  
P5 05- RADIO SET GROUPS (ELEX)  
P6 06- NOT ASSIGNED  
P7 07- NR-1 SUBMERSIBLE RESEARCH SHIP  
P8 08- ATS-1, 2, 3 (UNITED KINGDOM)  
P9 09- ORDNANCE FIRE CONTROL SWITCHING EQUIPMENT (HM&E/ORD)  
PA 10- ORDNANCE FIRE CONTROL SWITCHING EQUIPMENT (HM&E/ORD)  
PB 11- DEEP DIVING SUBMERGENCE SYSTEM  
PC 12- OCEANOGRAPHIC COMPONENTS  
PD 13- TRANSCEIVER GROUPS  
PE 14- SONAR SET GROUPS  
PF 15- ANTENNA SYSTEM-FLCATING WIRE  
PG 16- ANTENNA SYSTEM-HELICAL, LOOP OR WHIP  
PH 17- PANEL-REMOTE VALVE OPERATING  
PI 18- VALVE-MIXING, REFRIGERATION, AIR CONDITIONING AND COOLING  
PJ 19- PANEL-FUSE  
PK 20- PRIME DRIVERS (ELEX)  
PL 21- PANEL-COMMUNICATION

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PF PF- FITTINGS-POLE (ELEX)  
PG PG- PIGEON ARTICLES (ELEX)  
PH PH- PHOTOGRAPHIC ARTICLES (ELEX)  
PI 97-011 PERISCOPE-STADIMETER  
PJ 50-010 PANEL-POWER DISTRIBUTION AND/OR CONTROL (HM&E/ORD)  
PJ PANEL-POWER DISTRIBUTION AND/OR CONTROL (HM&E/ORD)  
PK PANEL-INDICATING (HM&E/ORD)  
PK 50-025 PANEL-INDICATING (HM&E/ORD)  
PL PL- PLUG-IN UNITS (ELEX)  
PM 41-072 PAPER SHREDDING MACHINE SEE ALSO OFF MACH ACC  
PN 25-004 PELORUS STAND SEE ALSO NAVIGATION EQUIPMENT ACC  
PO NOT ASSIGNED  
PP PP- POWER SUPPLY-NONROTATING MACHINE TYPE (ELEX)  
PO 97-008 PERISCOPE-COLLIMATOR  
PR 97-009 DEPLUMERS, FAIRINGS AND SUPPORTS FOR SUBMARINE PERISCOPES AND MASTS  
PS 50-009 PANEL-ALARM  
PT PT- MAPPING AND PLOTTING UNITS (ELEX)  
PU PU- POWER SUPPLY-ROTATING (ELEX)  
PV 41-047 CLEANING MACHINE-CLOCK AND WATCH  
PW 41-073 PINKING MACHINE  
PX 848 PIPING SYSTEM HARDWARE  
PY 41-091 PLANER-METAL CUTTING  
PZ 97-010 PERISCOPE-SEXTANT  
PO 11-009 POWER SUPPLY-AN/SQS-26 SONAR  
PI 28-029 PLOTTING TABLE, MK NC2 MOD0.2 & 3 SEE ALSO NAVIG EQ (HM&E/ORD)  
PI PLOTTING TABLE, MK NC2 MOD0.2 & 3 SEE ALSO NAVIG EQ (HM&E/ORD)  
P2 836 SANITATION EQUIPMENT AND REPAIR PARTS  
P3 27-011 PNEUMATIC TUBE SYSTEMS-COMMUNICATION  
P4 41-093 POLISHER-METALLURGICAL  
P5 41-095 POSITIONER-WELDING  
P6 41-094 POT-MELTING, ELEC  
P7 97-001 PERISCOPE-SUBMARINE  
P8 11-001 POWER SUPPLY-METALLIC RECTIFIER OR SEMICONDUCTOR DIODE TYPE  
P9 41-008 CLEANER-STEAM PRESSURE JET  
QA 54-010 PRINTING MACHINE-HEAT DEVELOPING  
QB 54-005 PRINTING PRESS-OFFSET  
QC 54-008 PRINTING PRESS-LETTER PRESS  
QD 54-019 PRINTING PRESS-LETTER  
QE 54-025 PRINTING PRESS-PROOF  
QF 99-028 PROBE AND CARRIER-FUELING SEE ALSO FUEL CIL SYS ACC  
QG 54-017 PROCESSING MACHINE-BLUE PRINT  
QH 86-013 PROCESSING MACHINE-PHOTOGRAPHIC FILM  
QI NOT ASSIGNED  
QJ 61-117 PROGRAM CONTROLLER  
QK 26-001 PROJECTION EQUIPMENT-MOTION PICTURE  
QL 26-002 PROJECTION EQUIPMENT-STILL PICTURE  
QM 83-030 PROPELLER ASSEMBLY-CONSTANT PITCH  
QN 64-007 RECHARGING UNIT-CO2 PUMPING METHOD  
QO NOT ASSIGNED  
QP 89-002 RESCUE CHAMBER AND RECOMPRESSION TANK  
QO 55-002 REELING MACHINE-HOSE  
QR 32-039 REFRIGERATION SYSTEM-ABSORPTION  
QS 83-034 PROPELLER ASSEMBLY-CONTROLLABLE PITCH  
QT 64-008 PROPORTIONER-FOAM LIQ SEE ALSO DAMAGE CONTRL ACC  
QU 83-043 PROPULSION DRIVE UNIT-STERN  
QV 01-038 PUMP UNIT-PUMP AND ACCESSORIES INSTALLED AS A UNIT

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CW 88-213 VALVE-OVERFLOW  
 QX 01-011 PUMP-CENTRIFUGAL, POWER DRIVEN  
 QY 32-023 REFRIGERATION-MECHANICAL  
 QZ 42-001 REGULATOR-ELECTRICAL (EXCEPT ENGINE GENERATOR)  
 Q0 88-231 VALVE-CROSS  
 Q1 01-017 PUMP-CENTRIFUGAL, POWER DRIVEN, CLOSE-COUPLED OR COUPLING DESIGN  
 Q2 88-245 VALVE-DIRECTIONAL INTERLOCK  
 Q3 88-248 VALVE-PILOT, PNEUMATIC OPERATED  
 Q4 01-001 PUMP-CENTRIFUGAL, BOILER FEED  
 Q5 88-249 VALVE-CONTROL THERMAL  
 Q6 41-048 CLEANING MACHINE-ELECTRIC AND OILBURNING  
 Q7 88-251 VALVE-LOW PUMP SECTION, SAFETY TRIP  
 Q8 88-252 VALVE-CONTROL AIR  
 Q9 01-014 PUMP-HAND DRIVE, OSCILLATING, RECIPROCATING OR ROTARY  
 RA 58-007 RACK-READY SERVICE  
 RB 52-029 RAM-HYDRAULIC  
 RC RC- REELS (ELEX)  
 RD RD- RECORDER/REPRODUCERS (ELEX)  
 RE RE- RELAY ASSEMBLY UNITS (ELEX/ORD)  
 RF RF- RELAY ASSEMBLY UNITS (ELEX/ORD)  
 RG RG- RADIO FREQUENCY COMPONENTS (ELEX)  
 RH 16-013 RECONDENSER SYSTEM-NITROGEN AND OXYGEN  
 RI 834 COMMISSARY EQUIPMENT  
 RJ 32-007 REFRIGERATION PURGE UNIT  
 RK 46-010 RECORDER-PNEUMATIC AND ELECTRO-PNEUMATIC  
 RL RL- REELING MACHINES (ELEX/ORD)  
 RL REELING MACHINES (ELEX/ORD)  
 RM 41-084 CLEANING MACHINE-TANK  
 RN 55-003 REEL-HOSE  
 RO RO- RECORDERS (ELEX/ORD)  
 RO RECORDERS (ELEX/ORD)  
 RP RP- REPRODUCERS (ELEX)  
 RQ 32-029 REFRIGERATED TANK-FILM PROCESSING  
 RR RR- REFLECTORS-EXCEPT ANTENNA REFLECTORS (ELEX)  
 RS 32-001 REFRIGERATION SYSTEM-MECHANICAL  
 RT RT- RECEIVER & TRANSMITTER (ELEX)  
 RU C88 DAMAGE CONTROL EQUIPMENT AND ACCESSORIES  
 RV R- RECEIVERS (ELEX)  
 RW 42-002 REGULATOR-ENGINE GENERATOR, BATTERY CHRG. ELECTROMECH  
 RX 42-007 REGULATOR-ENGINE GENERATOR, BATTERY CHRG. ELEX  
 RY 42-100 REGULATOR-PRESSURE  
 RZ 42-101 REGULATOR-FLPW, BOILER FEED WATER  
 P0 88-253 VALVE-LINEAR DIRECTIONAL CONTROL WITH ACTUATOR  
 R1 42-102 REGULATOR-FLCW, FLOAT OPERATED, DRAIN/MAKE-UP VLV  
 R2 42-104 REGULATOR-PRESSURE OXYGEN SERVICE  
 P3 99-004 RECEPTACLE ASSEMBLY-CO2 ABSORBENT  
 R4 41-067 GRINDING MACHINE-UTILITY  
 R5 20-003 RESISTOR-VARIABLE  
 R6 20-004 RESISTOR-FIXED  
 R7 41-104 REWINDING AND INSULATION MACHINES  
 R8 20-001 RHEOSTAT  
 R9 88-254 VALVE-REGULATING, COMPRESSED GAS  
 SA SA- SWITCHING UNITS (ELEX)  
 SB SB- SWITCHBOARDS (ELEX)  
 SC 41-112 SANDER-BELT, DISK AND SPINDLE

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SP 67-008 SANITATION EQUIPMENT SEE ALSO TOILET-MARINE  
SE 41-114 SAW-ABRASIVE-DISC, MASONRY  
SF 41-115 SAW-BAND  
SG GENERATOR-SIGNAL (ELEX/ORD)  
SG SG- GENERATOR-SIGNAL (ELEX/ORD)  
SH S- SHELTER (ELEX)  
SI 54-016 COMPOSING MACHINE-PHOTO PRINTING  
SJ 41-120 SAW- POWER HACK  
SK 43-017 SAW BAND, MEAT CUTTING  
SL 41-078 SAW SETTING MACHINE  
SM SIMULATORS (ELEX/ORD)  
SM SM- SIMULATORS (ELEX/ORD)  
SN SN- SYNCHRONIZERS (ELEX)  
SO NOT ASSIGNED  
SP 83-010 SEAL-SWIVEL JOINT TYPE  
SQ 41-145 SEALING MACHINE-HEAT  
SR 07-029 HEATER-SPACE, MULTI-FUEL WITH BLOWER  
SS 87-006 SELECTOR-SPEED SENSITIVITY  
ST ST- STRAPS (ELEX)  
SU SU- OPTICAL UNITS (ELEX)  
SV 67-010 SEWAGE TREATMENT SYSTEM-MULTI TOILETS OR URINALS  
SW 41-080 SEWING MACHINE-HOUSEHOLD AND INDUSTRIAL  
SX 83-017 SHAFT-PROPULSION, SHIP  
SY 41-119 SAW-JIG, WOOD WORKING  
SZ 83-002 SEAL-STERN TUBE SHAFT  
SO 43-023 SINK-SCULLERY  
SI 41-123 SHAPER-METAL CUTTING AND WOODWORKING  
S2 41-096 BENDING OR FOLDING MACHINE-MANUAL  
S3 99-007 SHELL-MISSILE TUBE  
S4 85-014 SHOCK ABSORBER-GAS, OIL OR PNEUMATIC  
S5 41-081 SHOE FINISHING AND STITCHING MACHINE  
S6 391 SHOP EQUIPMENT AND ACCESSORIES ON SHIPS  
S7 40-005 SHUTTER  
S8 41-125 SIEVE-FOUNDRY  
S9 43-052 SIFTING MACHINE-FLOUR, ELECTRIC  
TA TA- TELEPHONE APPARATUS (ELEX)  
TB TB- TOWED BODY (ELEX)  
TC TC- TOWED CABLE (ELEX)  
TD TD- TIMING DEVICES (ELEX)  
TE 92-007 TANK-LIQUID STORAGE  
TF TF- TRANSFORMERS (ELEX)  
TG TG- POSITIONING DEVICES-TILT AND/OR TRAIL (ELEX)  
TH TH- TELEGRAPH APPARATUS (ELEX)  
TI 61-107 TRANSDUCER-MOTIONAL PICKUP  
TJ 88-049 VALVE-MANEUVERING AND THROTTLE  
TK TK- TOOL KITS (ELEX)  
TL TL- TOOLS (ELEX)  
TM 88-250 VALVE-MANUAL RESET  
TN TN- TUNING UNITS (ELEX)  
TO NOT ASSIGNED  
TP AN/ A INVISIBLE LIGHT, HEAT RADIATION  
TO 52-012 TANK-ACCUMULATOR, HYDRAULIC  
TR TR- TRANSDUCERS (ELEX)  
TS TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED (ELEX/ORD)  
TS TS- TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED (ELEX/ORD)  
TT TT- TELETYPE WRITER AND FACSIMILE APPARATUS (ELEX)



# CDC LAPL

TG 52-048 COMPENSATOR-HYDRAULIC  
TV TV- TESTER-TUBE (FLEX)  
TW TW- TAPE UNITS-USED FOR OPERATIONAL TEST AND CHECK OUT (ELEX)  
TX T- TRANSMITTERS-ALL TYPES EXCEPT TELEPHONE (ELEX)  
TY 31-006 TENSIONING DEVICE-COUNTERWEIGHT  
TZ 46-002 TEST EQUIPMENT-ANALYZER  
TO 41-149 PUMP-AIRLESS SPRAY PAINT  
T1 46-006 TEST FIXTURES, SETS, STANDS AND CALIBRATORS, ALL TYPES  
T2 41-150 CLEANER-VACUUM, ELECTRIC  
T3 43-029 TOASTER-ELECTRIC, INTERMITTENT  
T4 43-030 MIXER AND TANK-FLUID ELECTRIC  
T5 43-058 FOOD CUTTER AND MIXER-ELECTRICAL  
T6 43-061 COMPACTOR-TRASH  
T7 46-013 TORSION METER-PROPULSION SHAFTING  
T8 48-010 FILTER-AIR, ELECTROSTATIC  
T9 TEST EQUIPMENT-MISCELLANEOUS (HM&E/CRC)  
T9 41-132 TEST EQUIPMENT-MISCELLANEOUS (HM&E/CRC)  
UA U- CONNECTORS-AUDIO AND POWER (ELEX)  
UB C35 LAUNDRY EQUIPMENT AND ACCESSORIES  
UC C22 STEERING GEAR, EMERGENCY  
UD C21 HYDRAULIC FILTER UNIT, PORTABLE  
UE C30 PORTABLE CLEATS  
UF C23 INDUSTRIAL GASES GENERATING, HANDLING AND STORAGE  
UG UG- CONNECTORS-RF (ELEX)  
UH DIRECTOR-WEAPON SYSTEM  
UI NOT ASSIGNED  
UJ 88-014 VALVE-GATE, HYDROCARBON FUEL SERVICE  
UK 99-018 CABLE ASSEMBLY-ELECTRICAL  
UL 99-031 DISPENSER-CHAFF  
UM 88-032 VALVE-REFRIGERATION SHUT OFF 3/4 IN AND LARGER  
UN 52-006 MISSILE HANDLING SYSTEM-HYDRAULIC  
UD NOT ASSIGNED  
UP 41-071 MAGNETIC INSPECTION UNIT PORTABLE  
UQ 50-003 PANEL-TEST ELECTRICAL  
UR C27 CARGO HANDLING ACCESSORIES  
US 50-006 PANEL-INTERIOR COMMUNICATION  
UT 50-008 PANEL-GYRO OR DEAD RECKONING CONTROL  
UU 86-004 SAFELIGHT-DARKROOM, PHOTOGRAPHIC  
UV 28-023 PLOTTING AND TRACING EQUIPMENT  
UW 55-004 REEL-CABLE  
UX 19-002 RELAY-ELECTRICAL SEE ALSO TEST EQUIPMENT  
UY 55-001 REELING MACHINE-CABLE  
UZ 46-003 RECORDER-ELECTRICAL AND ELECTRONIC  
UO 41-118 SAW-CIRCULAR  
U1 SHIELD ASSEMBLY-WEAPON SYSTEM  
U2 TRAIN POWER DRIVE ASSEMBLY-WEAPON SYSTEM  
U3 ELEVATION POWER DRIVE ASSEMBLY-WEAPON SYSTEM  
U4 TRAIN TRANSMISSION ASSEMBLY-WEAPON SYSTEM  
U5 ELEVATION TRANSMISSION ASSEMBLY-WEAPON SYSTEM  
U6 TRAIN RECEIVER REGULATOR-WEAPON SYSTEM  
U7 ELEVATION RECEIVER REGULATOR-WEAPON SYSTEM  
U8 CONTROL ASSEMBLY-WEAPON SYSTEM  
U9 FUSE SETTER ASSEMBLY-WEAPON SYSTEM  
VA 88-103 VALVE-BALANCING  
VB 88-149 VALVE-ANGLE  
VC 88-039 VALVE-ASTERN



# CDC LAPL

VP 838 ENVIRONMENTAL CONTROL SYSTEM SPARES AND REPAIR PARTS  
VE 88-001 VALVE-BALL  
VF CONTROL-LAUNCHER  
VG 88-038 VALVE-BUTTERFLY  
VH V- VEHICLES-CARTS, DOLLIES, VANS U/W ELECTRONIC EQUIPMENT (ELEX)  
VI 88-057 VALVE-GLOBE  
VJ 88-036 VALVE-CHECK  
VK 88-175 VALVE-SPECIAL  
VL 88-019 VALVE-PILOT AND LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES  
VM 88-171 VALVE-RELAY AIR, DIAPHRAGM AND PISTON TYPES  
VN 88-026 VALVE-EXPANSION  
VO NOT ASSIGNED  
VP 88-212 VALVE-FLOAT  
VQ 88-024 VALVE-FUEL OIL REGULATING  
VR 88-013 VALVE-GATE, ALL TYPES EXCEPT HYDROCARBON FUEL SERVICE  
VS VS- SIGNALING EQUIPMENT-VISUAL (ELEX)  
VT 88-124 VALVE-LINEAR, DIRECTIONAL CONTROL  
VU 88-189 VALVE-INSTANTANEOUS HEATER  
VV 88-071 VALVE-NEEDLE  
VW 88-217 VALVE-PILOT CONTROL, BELLOWS AND SOLENOID OPERATED  
VX 88-033 VALVE-PLUG  
VY 88-020 VALVE-PRESSURE REGULATING, STEAM SERVICE  
VZ 88-025 VALVE-FLUSH  
VO 88-102 VALVE-ROTARY, DIRECTIONAL CONTROL  
VI 88-176 VALVE-EXHAUST AND RELIEF  
V2 88-191 VALVE-FEEDWATER REGULATING  
V3 87-013 VALVE - SEA, UNDERWATER LOG  
V4 88-152 VALVE-MAIN BALLAST  
V5 88-144 VALVE-MANIFOLD (EXCLUDES VALVE AND TRAP MANIFOLDS)  
V6 88-216 VALVE-SOLENOID  
V7 88-010 VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION  
V8 88-166 VALVE-HINGE TYPE  
V9 88-055 VALVE-Y  
WA 91-001 WASHING MACHINE - LAUNDRY  
WB 41-086 WELDING AND BRAZING MACHINE - BAND SAW BLADE  
WC 82-002 WELDING MACHINE - RESISTANCE  
WD WD- CABLE, 2 CONDUCTOR, NON-RF (ELEX)  
WE 82-005 WELDING MACH-ARC, ADJUST, CONST VLTG CR CONST CURR TRANSFORMER RECTIFIER  
WF WF- CABLE, 4 CONDUCTOR, NON-RF (ELEX)  
WG 82-001 WELDING SET - TUNGSTEN ARC, INERT GAS SHIELDED, NONCONSUMABLE ELECTRODE  
WH 82-004 WELDING SET - ARC, INERT GAS SHIELDED, CONSUMABLE ELECTRODE  
WI NOT ASSIGNED  
WJ 82-007 WELDING SET - STUD, ELECTRIC ARC  
WK 62-001 WINCH - HAND OPERATED  
WL 62-002 WINCH - STEAM OPERATED  
WM WM- CABLE, MULTIPLE CONDUCTOR, NON-RF (ELEX)  
WN 62-004 WINCH - ELECTRIC - HYDRAULIC  
WO NOT ASSIGNED  
WP 62-006 WINCH - ENGINE DRIVEN, GASOLINE OR DIESEL  
WO 62-007 WINCH - PNEUMATIC DRIVE  
WR 41-087 WINDING MACHINE COIL  
WS WS- CABLE, SINGLE CONDUCTOR, NON-RF (ELEX)  
WT WT- CABLE, 3 CONDUCTOR, NON-RF (ELEX)  
WU 63-003 WINDLASS - ELECTRICAL MECHANICAL SEE ALSO ANCHOR HANDLING ACCESSORIES  
WV 63-004 WINDLASS - HAND OPERATED SEE ALSO ANCHOR HANDLING ACCESSORIES  
WW 31-025 WINDOW - OBSERVATION, OPTICAL, PORTLIGHT

CDC LAPL

WX 99-001 WINDOW - NON ICING  
 WY 35-001 WIPER-WINDOW PNLM, RTY OR VERT TYPE, ELEC OR MNL (HM&E/ORD)  
 WY WIPER-WINDOW PNLM, RTY OR VERT TYPE, ELEC OR MNL (HM&E/ORD)  
 WZ 35-002 WIPER - WINDOW, PENDULUM TYPE, PNEUMATIC  
 W0 FIRING CUTOFF ASSY-WEAPON SYSTEM  
 W1 CARRIAGE ASSEMBLY-WEAPON SYSTEM  
 W2 STAND ASSEMBLY-WEAPON SYSTEM  
 W3 SLIDE ASSEMBLY-WEAPON SYSTEM  
 W4 RAMMER ASSEMBLY-WEAPON SYSTEM  
 W5 HOUSING ASSEMBLY-WEAPON SYSTEM  
 W6 GUN BARREL ASSEMBLY-WEAPON SYSTEM  
 W7 GAS EJECTOR ASSEMBLY-WEAPON SYSTEM  
 W8 EMPTY CASE EJECTOR ASSY-WEAPON SYSTEM  
 W9 HOIST ASSEMBLY-WEAPON SYSTEM  
 XA C00 COMPRESSOR GAS TURBINE REPAIR PARTS  
 XB BULKHEADS-STRUCTURAL  
 XC CANVAS  
 XD DECK COVERINGS  
 XE E34 MISCELLANEOUS FLAG ALLOWANCES, MESSING GEAR  
 XF C36 SURVIVAL EQUIPMENT  
 XG C41 LIFTING AND HANDLING GEAR MAIN AND AUXILIARY MACHINERY  
 XH C43 TOOLS AND ACCESSORIES MAIN PROPULSION SHAFTING  
 XI C38 ENVIRONMENTAL CONTROL SYSTEM APPLIANCES  
 XJ C47 PUMPS, PORTABLE  
 XK C51 BOILER TOOLS AND ACCESSORIES  
 XL C58 TOOLS AND ACCESSORIES DISTILLING PLANT  
 XM C59 TOOLS AND ACCESSORIES REFRIGERATION SYSTEM  
 XN DOOR-NON STRUCTURAL  
 XO NOT ASSIGNED  
 XP C48 HOSE AND MISCELLANEOUS HOSE FITTINGS  
 XQ C61 TOOLS AND ACCESSORIES GENERATORS  
 XR C18 RIGGING  
 XS SHEATHING  
 XT C62 TOOLS AND ACCESSORIES ELECTRIC POWER DISTRIBUTION  
 XU C64 LIGHT EXTENSION  
 XV C65 PORTABLE INTERIOR COMMUNICATION EQUIPMENT  
 XW C66 LIGHT SIGNAL PORTABLE  
 XX C67 ELECTRICAL AND ELECTRONIC HAND TOOLS  
 XY C69 IOTIC SUPPORT EQUIPMENT  
 XZ C70 FLAGS AND PENNANTS  
 X0 C75 ASROC/TORPEDO/MINE HANDLING  
 X1 DECK  
 X2 DOME-SONAR(STRUCT AND NON STRUCT)  
 X3 BALLAST  
 X4 PLATFORM DECK  
 X5 FLAT  
 X6 C77 NBC WARFARE EQUIPMENT  
 X7 C81 MINESWEEPING EQUIPMENT  
 X8 C83 AIRCRAFT HANDLING AND STOWAGE  
 X9 C85 PROJECTION EQUIPMENT AND ACCESSORIES  
 YA 54-009 TABLE-LITHOGRAPHIC LAYOUT  
 YB 60-006 STEERING GEAR  
 YC 46-C11 TRITIUM AIR MONITOR  
 YD 85-C36 TROLLEY - MONORAIL AND BI-RAIL  
 YE TRUCK/DOLLY/ CRADLE ASSEMBLY SEE ALSO CARGO HNDL ACCY (HM&E/ORD)  
 YE 85-018 TRUCK/DOLLY/ CRADLE ASSEMBLY SEE ALSO CARGO HNDL ACCY (HM&E/ORD)

CDC LAPL

YF 41-139 TUBE AND FLUE CLEANER - AIR MOTOR DRIVEN  
 YG 41-140 TUBE AND FLUE CLEANER - ELECTRIC MOTOR DRIVEN  
 YH 05-001 TURBINE-STEAM, MAIN PROPULSION  
 YI NOT ASSIGNED  
 YJ 61-029 CONTROL PANEL-AUTOMATIC OR MANUAL  
 YK 61-048 ELECTRONICS SUB-ASSEMBLIES  
 YL 82-003 WELDING MACHINE - ARC, DRIVEN BY GAS OR DIESEL INTERNAL COMBUSTION ENGINE  
 YM 61-065 INDUCTOR-VERNIER  
 YN 82-006 WELDING MACHINE - ARC, ELECTRIC MOTOR DRIVEN  
 YO NOT ASSIGNED  
 YP 62-003 WINCH - ELECTRIC  
 YQ 63-001 WINDLASS - STEAM DRIVEN SEE ALSO ANCHOR HANDLING ACCESSORIES  
 YR 05-006 TURBINE-STEAM, AUXILIARY  
 YS 05-022 TURBINE - WATER DRIVEN  
 YT 05-028 TURBINE - GAS, PROPULSION AND AUXILIARY SERVICE OVER 2000 HORSEPOWER  
 YU 05-029 TURBINE - GAS, PROPULSION AND AUX SERVICE 2000 HORSEPOWER OR UNDER  
 YV 05-025 TURBINE AND FAN, INTEGRAL FORCED DRAFT AIR SERVICE FOR MAIN BOILER  
 YW 05-019 TURBINE CONTROL - PROPULSION  
 YX 05-024 TURBO/SUPERCHARGER - DIESEL ENGINE  
 YY 85-003 TURNTABLE - TROLLEY OR BALL TYPE, MANUAL OR POWER DRIVEN  
 YZ 85-009 TORPEDO HANDLING UNIT (HM&E/ORD)  
 Z0 TORPEDO HANDLING UNIT (HM&E/ORD)  
 Z1 C12 HULL FITTINGS, LASHING GEAR AND ACCESS CLOSURES  
 Z2 53-002 CAPSTAN-POWER OPERATED, ELECTRIC OR HYDRAULIC  
 Z3 63-002 WINDLASS - ELECTRIC HYDRAULIC SEE ALSO ANCHOR HANDLING ACCESSORIES  
 Z4 C87 TEST, MEASURING AND INDICATING EQUIPMENT  
 Z5 C90 RADIATION MONITORING AND COUNTERMEASURES  
 Z6 C93 SHIPBOARD FIREFIGHTING AND ACCESSORIES  
 Z7 A00 ORDNANCE TOOLS AND ACCESSORIES (AEL/CPD)  
 Z8 A00 ORDNANCE TOOLS AND ACCESSORIES (AEL/CRD)  
 Z9 WFLDMENT  
 ZA C94 SALVAGE TOOLS AND EQUIPMENT  
 ZB C95 DIVING EQUIPMENT  
 ZC 61-086 STAND, CONTROL-STEERING  
 ZD 61-087 STAND, CONTROL PROPULSION  
 ZE 91-009 STARCH COCKER-LAUNDRY  
 ZF 61-482 VALVE OPERATOR-HYDRAULIC OPERATOR  
 ZG 34-001 STARTER-ENGINE, ELECTRICAL  
 ZH 34-002 STARTER-ENGINE, HYDRAULIC  
 ZI 34-003 STARTER-ENGINE, DIRECT COMBUSTION AND/OR GAS TURBINE  
 ZJ 34-005 STARTER-ENGINE, AIR MOTOR OR AIR TURBINE TYPE  
 ZK NOT ASSIGNED  
 ZL 60-001 STEERING GEAR-ELECTRO-HYDRAULIC, MARINE, LINK, TILLER TYPE  
 ZM 60-003 STRONG GEAR-ELECTRIC, MARINE, DRUM&CBL/CBL&CC, GR&CC, FND OP TYPE  
 ZN 60-007 STEERING GEAR-ELECTRIC, STEER MOTOR-CHAIN DRIVE TYPE  
 ZO ZM- IMPEDANCE MEASURING DEVICES (ELEX)  
 ZP 60-008 STEERING GEAR-EMERGENCY SUBMERSIBLE TYPE  
 ZQ NOT ASSIGNED  
 ZR 61-027 STEERING HEAD-GYROPILOT  
 ZS 54-020 STITCHER-BOOK AND PAMPHLET  
 ZT 64-005 STRAINER-PRESSURE, FIRE HOSE WITH BALL VALVE  
 ZU 64-014 FIRE EXTINGUISHING SYSTEM-TWIN AGENT  
 ZV C99 TOOLS AND EQUIPMENT MISCELLANEOUS  
 ZW 64-015 FIRE EXTINGUISHING UNIT-DRY CHEMICAL  
 ZX D39 DSRV RESCUE CONTROL CENTER  
 ZY 64-016 NOZZLE ASSEMBLY-TWIN AGENT

CDC LAPL

ZX 41-113 SAND MULLER  
ZY 75-001 STRAINER-SEDIMENT  
ZZ MISCELLANEOUS ITEMS NOT OTHERWISE COVERED  
Z0 E24 MISCELLANEOUS FLAG ALLOWANCES, NAVIGATION INSTRUMENTS  
Z1 61-072 CONTROL-HUMIDITY  
Z2 41-129 SURFACER-WOODWORKING  
Z3 85-027 SWAY BRACE ASSEMBLY-ELECTRIC CHAIN HOIST DRIVE  
Z4 89-005 SWIMMERS RECOVERY SYSTEM  
Z5 E36 MISCELLANEOUS FLAG ALLOWANCES, VACUUM CLEANER  
Z6 61-074 COMPUTER-SHIPBOARD  
Z7 E85 MISCELLANEOUS FLAG ALLOWANCES, PROJECTION EQUIPMENT  
Z8 61-389 BELLOWS ASSEMBLY-PRESSURE RELIEF  
Z9 NOT ASSIGNED  
0A NOT ASSIGNED  
0B NOT ASSIGNED  
0C TELEMETERING SETS  
0D NOT ASSIGNED  
0E NOT ASSIGNED  
0F NOT ASSIGNED  
0G NOT ASSIGNED  
0H NOT ASSIGNED  
0I NOT ASSIGNED  
0J NOT ASSIGNED  
0K NOT ASSIGNED  
0L NOT ASSIGNED  
0M NOT ASSIGNED  
0N NOT ASSIGNED  
0O NOT ASSIGNED  
0P NOT ASSIGNED  
0Q NOT ASSIGNED  
OR OR ORDLTS AND ORDNANCE MODIFICATIONS-OTHER THAN SWITCHBOARD  
OS RS ORDLTS AND ORDNANCE MODIFICATIONS-SWITCHBOARD ONLY  
OT NOT ASSIGNED  
OU NOT ASSIGNED  
OV NOT ASSIGNED  
OW NOT ASSIGNED  
OX NOT ASSIGNED  
OY NOT ASSIGNED  
OZ NOT ASSIGNED  
00 NLAPLW NLAPLW-ITEM LISTED BY SPCC AS NOT LAPL WORTHY  
00 INCOMP INCOMP-ITEM LISTED BY SPCC AS INCOMPLETE  
01 06-001 COMPRESSOR-RECIPROCATING, OTHER  
02 06-004 COMPRESSOR-CENTRIFUGAL, REFRIGERATION  
03 06-201 COMPRESSOR-RECIPROCATING, AIR, HIGH, PRESSURE  
04 06-202 COMPRESSOR-RECIPROCATING, AIR, LOW, PRESSURE  
05 06-203 COMPRESSOR-CENTRIFUGAL, AIR, LOW PRESSURE  
06 06-204 COMPRESSOR-ROTARY, AIR, LOW PRESSURE  
07 06-501 COMPRESSOR-VAPOR ROTARY  
08 AVIATION ORDNANCE EQUIPMENT  
09 04-001 CONDENSER-REFRIGERATION, WATER, COOLED  
1A NOT ASSIGNED  
1B 41-004 BOOTH-SPRAYING  
1C 39-005 CLUTCH-FRICTION  
1D 837 PROPANE GAS AND CYLINDERS  
1E MACK  
1F 14-007 FUSE UNIT ASS



CDC LAPL

1G 41-045 GRINDING MACHINE-UTILITY (INCL BUFFING CAPABILITY)  
 1H 76-006 HYPOCHLORINATION UNIT  
 1I NOT ASSIGNED  
 1J 01-012 PUMP-FUEL, ALL TYPES INCLUDING ELECTRIC DRIVE DESIGN  
 1K 54-001 PUNCHING MACHINE-PAPER  
 1L 61-049 SYNCHRO-RECEIVER, TRANSMITTER, RECEIVER, TRANSMITTER  
 1M 17-018 MOTOR-AC/DC MAIN PROP, UNLIMITED HORSEPOWER  
 1N C32 FURNISHINGS AND CUTFITTINGS  
 1O NOT ASSIGNED  
 1P 39-003 POWER TAKE OFF-ACCESSORY DRIVE  
 1Q 01-005 PUMP-ROTARY, POWER DRIVEN  
 1R 43-057 RINSE-SANITIZER  
 1S 86-001 SINK-PHOTOGRAPHIC PROCESSING  
 1T 01-013 PUMPING UNIT-CENTRIFUGAL, POWER DRIVEN, AIRCRAFT FUELING  
 1U NOT ASSIGNED  
 1V 88-004 VALVE-SAFETY RELIEF, MAIN PROPULSION BOILER  
 1W NOT ASSIGNED  
 1X 52-014 CYLINDER-ACTUATING LINEAR SEE ALSO JACK ASSEMBLY/SFCK AB  
 1Y 57-008 CRANE-ASROC MISSILE  
 1Z NOT ASSIGNED  
 10 NOT ASSIGNED  
 11 04-100 CONDENSER-STEAM, ALL TYPES  
 12 01-003 PUMP-CENTRIFUGAL, MAIN CONDENSER CIRCULATING  
 13 01-004 PUMP-ROTARY, POWER DRIVEN, CAM AND PLUNGER DESIGN  
 14 01-006 PUMP-ROTARY, POWER DRIVEN, IMPELLER DESIGN WITH TIMING GEARS  
 15 01-007 PUMP-ROTARY, POWER DRIVEN, EXTERNAL GEAR DESIGN  
 16 32-009 CONDENSING UNIT-REFRIGERATION  
 17 99-023 CONNECTOR-ELECTRICAL SEE BOX-ELECTRICAL  
 18 61-030 CONSOLE-CONTROL AND POWER  
 19 09-004 CONTROL-BATTERY CHARGER  
 2A LAUNCHING SYSTEM (MISSILE/ROCKET)  
 2B BOX-ELECTRICAL (HMG/ORD)  
 2B 99-008 BOX-ELECTRICAL (HMG/ORD)  
 2C 39-006 CLUTCH-MAGNETIC  
 2D 844 PROPELLER, SPECIAL TOOLS AND HANDLING GEAR  
 2E LAUNCHERS (MISSILE/ROCKET)  
 2F 850 GOVERNOR OVERSPEED SPARES  
 2G 25-024 GYRO COMPASS-ARMA MK 7,8,9,10,21,22,24, & 26  
 2H 31-003 HATCH COVER  
 2I NOT ASSIGNED  
 2J ANTI-ICING SYSTEM  
 2K 41-074 PUNCHING, SHEARING, AND NIBBLING MACHINE-METAL  
 2L 32-034 SEPARATOR-OIL, REFRIGERANT  
 2M 41-089 MOTOR-PNEUMATIC  
 2N 83-037 OIL DISTRIBUTION BOX OR OIL INJECTOR ASSEMBLY  
 2O NOT ASSIGNED  
 2P 52-047 POWER UNIT-HYDRAULIC  
 2Q 39-001 CLUTCH-POSITIVE DRIVE AND ROTATING ELEMENT  
 2R 41-075 RIVETING MACHINE-ELECTRIC OR PNEUMATIC  
 2S 41-082 SKIVING AND BEVELING MACHINE-SHOE, SOLE, HAND OPERATED  
 2T 41-085 THREADING MACHINE-PIPE AND BOLT SEE ALSO SHOP ACCESSORIES-TOOLS X ECP  
 2U MAGAZINES-WEAPON SYSTEM  
 2V GUN MOUNTS  
 2W NOT ASSIGNED  
 2X CASTING  
 2Y 57-009 CRANE-ELECTRIC HYDRAULIC



CDC LAPL

2Z 21-011 SWITCH-FLOAT, LIQUID LEVEL, FLOW DETECTING  
20 61-008 CONTROL-STEERING SYSTEM  
21 61-009 CONTROL-MECHANICAL  
22 NOT ASSIGNED  
23 61-015 CONTROL-NAVIGATIONAL LIGHT  
24 61-022 CONTROL-ACOUSTIC DEVICE  
25 61-024 CONTROL-MECHANICAL PUSH PULL STROKE  
26 61-026 CONTROL-ELECTRIC LIGHT  
27 61-040 CONTROL-VALVE OPERATOR  
28 61-064 CONTROL-HUMIDITY  
29 61-067 CONTROL-REMOTE TRANSMITTERS AND RECEIVERS  
3A NOT ASSIGNED  
3B 80-001 BRAKE-ELECTRIC, SHOE OR DISC, SOLENOID  
3C 39-007 CLUTCH-MAGNETIC PARTICLE  
3D 841 PROPULSION MAIN DRIVE DIESEL ENGINE EQUIPMENT AND ACCESSORIES  
3E NOT ASSIGNED  
3F FRAME-STRUCTURAL  
3G 25-028 GYRO COMPASS-SPERRY MK 11, 14, 17, 18, & 19  
3H NOT ASSIGNED  
3I NOT ASSIGNED  
3J 21-018 SWITCHING UNIT-POWER TRANSFER  
3K 76-001 PURIFIER-CENTRIFUGAL  
3L 93-009 SEPARATOR MOISTURE  
3M 52-046 MOTOR-HYDRAULIC  
3N 01-018 PUMP-CENTRIFUGAL, SINGLE STAGE, CLOSE-COUPLED, NAVY STD  
3O NOT ASSIGNED  
3P 61-091 POWER UNIT-GYRO PILOT  
3Q 01-009 PUMP-ROTARY, POWER DRIVEN, VANE DESIGN, FIXED OR VAR DELIVERY  
3R 87-002 ROOMETER-UNDERWATER LOG SYSTEM  
3S 32-020 SODA FOUNTAIN  
3T 61-056 THRUSTER-MOTOR DRIVEN, HYDRAULICALLY OPERATED  
3U 858 DISTILLING PLANT ACCESSORIES  
3V 16-016 VAPORIZER SYSTEM - LIQUID OXYGEN OR NITROGEN  
3W AN/ C CARRIER  
3X 06-005 COMPRESSOR-RECIPROCATING, REFRIG, VERT OPR, SEMI-HERM  
3Y 57-010 CRANE STERN  
3Z AN/ D RADIAC  
30 61-071 CONTROL-PHOTOELECTRIC CELL  
31 61-079 CONTROL-CONSTANT FREQUENCY  
32 61-096 CONTROL-TRANSMISSION REVERSING MECHANISM  
33 61-108 CONTROL-PERISCOPE  
34 61-110 CONTROL-SENSOR, DEPTH AND TRIM  
35 61-402 CONTROL-FLAME FAILURE  
36 61-444 CONTROL-GENERATOR, COOLER FEEDWATER  
37 61-481 CONTROL-SERV, CONTROLLABLE PITCH PROPELLERS  
38 87-004 CONTROL-UNDERWATER LOG  
39 61-019 CONTROL TRANSMITTER-PRESSURE DIFFERENTIAL  
4A AN/ G TELEGRAPH OR TELETYPE  
4B BULKHEAD-NONSTRUCTURAL  
4C 39-013 CLUTCH- ALL OTHER TYPES  
4D 31-019 DOOR-MISSILE TUBE  
4E AN/ I INTERPHONE AND PUBLIC ADDRESS  
4F FORGING  
4G 25-039 GYRO COMPASS-SPERRY MK 23 AND 27  
4H AN/ J ELECTROMECHANICAL OR INERTIAL WIRE COVERED  
4I NOT ASSIGNED

CDC LAPL

4J 22-001 SWITCHBOARD-DEGAUSSING  
4K 61-012 CONTROL-DEGAUSSING  
4L 61-011 SERVO GEAR TRAIN  
4M 18-001 MOTOR GENERATOR  
4N 31-002 OPERATING MECHANISM-DOCK, RAMP, STERN GATE & BRIDGE  
4O NOT ASSIGNED  
4P 41-068 PRESS-GRIMMET AND EYFLET  
4Q TELEMETERING (ELEX/ORD)  
4Q AN/ K TELEMETERING (ELEX/ORD)  
4R 31-019 RUDDER-INCLUDING STOCKS, POSTS AND CARRIERS  
4S 41-127 SOLDER AND DESOLDER UNIT-ELECTRIC  
4T 61-005 TIMER  
4U AN/ L COUNTERMEASURES  
4V 43-014 VEGETABLE PEELING MACHINE - ELECTRIC  
4W AN/ M METEOROLOGICAL  
4X C33 CLOTHING STANDARD OUTFIT, AIR PURIFICATION AND LIFE PRESERVERS  
4Y 57-011 CRANE-HEAVY EQUIPMENT  
4Z 01-019 PUMP CENTRIFUGAL, POWER DRIVEN, PERIPHERAL DESIGN  
40 61-075 CONTROL-STEERING AND DIVING ASSEMBLY  
41 61-062 CONTROL-PNEUMATIC  
42 61-066 CONTROL-TELE MOTOR STEERING  
43 61-089 CONTROL-SPLIT PLANE  
44 61-132 CONTROL-FEED WATER SYSTEM  
45 61-251 CONTROL- PRESSURE, TEMP, LEVEL AND FLOW  
46 83-040 CONTROL-CONTROLLABLE PITCH PROPELLER  
47 15-002 CONTROLLER/STARTER, AC  
48 AN/ N SOUND IN AIR  
49 AN/ P RADAR  
5A AN/ Q SONAR AND UNDERWATER SOUND  
5B 80-002 BRAKE-ELECTRIC, MOTOR OPERATED  
5C 43-015 COFFEE MAKER  
5D 31-017 DOOR-HINGED TYPE, POWER OPERATED  
5E AN/ R RADIO  
5F FOUNDATION  
5G 25-008 GYRO COMPASS EQUIPMENT-AMPLIFIER-SYNCHRO SIGNAL  
5H AN/ S SPECIAL TYPES MAGNETIC, ETC., OR COMBINATIONS OF TYPES  
5I NOT ASSIGNED  
5J 22-002 SWITCHBOARD-INTERIOR COMMUNICATION  
5K PLATFORM-SERVICE  
5L STRUCTURE-DECKHOUSE  
5M AN/ T TELEPHONE (WIPE)  
5N 28-009 OPTICAL NAVIGATIONAL AIDS ALSO SEE SPECIFIC EQPMT  
5O NOT ASSIGNED  
5P 41-058 PRESS-HYDRAULIC, MANUAL OR POWER OPERATED  
5Q 01-008 PUMP-ROTARY, POWER DRIVEN, INTERNAL GEAR DESIGN  
5R 821 HYDRAULIC SYSTEM TOOLS AND REPAIR PARTS  
5S 41-126 SOLDERING AND BRAZING OUTFIT, ELECTRIC  
5T TRUNK-STRUCTURAL  
5U AN/ V VISUAL AND VISIBLE LIGHT  
5V 87-007 VENT, AIR - U/W LOG EQUIPMENT  
5W AN/ W ARMAMENT (PECULIAR TO ARMAMENT, NOT OTHERWISE COVERED)  
5X 01-021 PUMP-CENTRIFUGAL, TURBINE DRIVEN, GASLINE SERVICE  
5Y 57-013 CRANE-GANTRY  
5Z 862 PORTABLE STORAGE BATTERIES AND POWER DISTRIBUTION ACCESSORIES  
50 AN/ X FACSIMILE OR TELEVISION  
51 AN/ Y DATA PROCESSING

CDC LAPL

52 AUTOMOTIVE & CONSTRUCTION EQUIPMENT (INCL ALL COMMODITY CLASS 95)  
 53 MISC. PARTS LISTS FOR SHIPS (INCL ALL APLS STARTING WITH 89000)  
 54 MAINTENANCE & REPAIR SHIP EQUIPMENT (INCL ALL COMMODITY CLASS 12)  
 55 CHEMICAL WARFARE EQUIPMENT (INCL ALL COMMODITY CLASS 47)  
 56 SICK-BAY EQUIPMENT (INCL ALL COMMODITY CLASS 84)  
 57 01-020 PUMP-CENTRIFUGAL, POWER DRIVEN, HORIZONTAL, SPLIT CASE DESIGN  
 58 RIGGING & RIGGING GEAR (INCL ALL COMMODITY CLASS 90)  
 59 CONSTRUCTION EQUIPMENT (INCL ALL COMMODITY CLASS 96)  
 6A 99-015 ARRESTOR-ELECTRICAL  
 6B 01-028 PUMP-CENTRIFUGAL, TURBINE DRIVEN, HORIZONTAL, CLOSE-COUPLED  
 6C 54-023 COLLATOR  
 6D 31-008 DOOR-METAL SLIDING  
 6E SPECIAL POWER PLANT EQUIPMENT (INCL ALL COMMODITY CLASS 98)  
 6F NOT ASSIGNED  
 6G 25-010 GYRO COMPASS EQUIPMENT-ALARMS-AUDIBLE & VISIBLE  
 6H NOT ASSIGNED  
 6I NOT ASSIGNED  
 6J 22-004 SWITCHBOARD-PPCULSION  
 6K PYROTECHNIC EQUIPMENT  
 6L SEA CHEST  
 6M 999 MISCELLANEOUS FLAG ALLOWANCES, FURNITURE AND MISC. EQUIPMENT  
 6N 87-012 OSCILLATOR AND AMPLIFIER-U/W LOG EQUIPMENT  
 6O NOT ASSIGNED  
 6P 41-100 PRESS-ARBOR, MANUAL OPERATION  
 6Q NOT ASSIGNED  
 6R NOT ASSIGNED  
 6S 61-046 SOLENOID-ELECTRIC  
 6T 43-026 TOASTER-ELECTRIC  
 6U NOT ASSIGNED  
 6V 31-020 VENTILATOR - DECK  
 6W NOT ASSIGNED  
 6X 816 ACCESS CLOSURES OPERATING SPARES  
 6Y 57-016 CRANE-KINGPOST  
 6Z NOT ASSIGNED  
 6O 15-010 CONTROLLER, DC  
 6I NOT ASSIGNED  
 62 25-014 CONVERTER-SIGNAL DATA  
 63 01-022 PUMP-CENTRIFUGAL, POWER DRIVEN, FOR COMMERCIAL DISHWASHING MACHINE  
 64 01-023 PUMP-CENTRIFUGAL, POWER DRIVEN, SUBMARINE TRIM AND DRAIN SERVICE  
 65 59-006 CONVEYOR-POWER OPERATED, BELT OR VERTICAL TRAY TYPE  
 66 NOT ASSIGNED  
 67 03-001 COOLER-FLUID, SHELL/TUBE CONSTRUCTION  
 68 01-026 PUMPING UNIT-CENTRIFUGAL, ELECTRIC MOTOR DRIVEN, FOR STEAM SYSTEMS  
 69 03-002 COOLER-FLUID, TYPE B  
 7A APPENDAGES-SHELL  
 7B 80-003 BRAKE-PNEUMATIC  
 7C 41-009 COLLECTOR UNIT-DUST  
 7D 43-054 DOUGH INTERMEDIATE PROOFING MACHINES  
 7E NOT ASSIGNED  
 7F NOT ASSIGNED  
 7G 25-011 GYRO COMPASS EQUIPMENT-CABINET-GYRO & GUID COMP STOR  
 7H NOT ASSIGNED  
 7I NOT ASSIGNED  
 7J 22-009 SWITCHBOARD-ALARM  
 7K NOT ASSIGNED  
 7L STANCHIONS

CDC LAPL

7M 51-006 MOUNT-RESILIENT  
7N 41-090 OVEN-THERMAL DRYING, ELECTRIC  
7O NOT ASSIGNED  
7P 44-008 PRESSURE REDUCING STATION  
7Q NOT ASSIGNED  
7R NOT ASSIGNED  
7S 81-001 SOOT BLOWERS  
7T TORPEDO TUBE ASSEMBLY  
7U NOT ASSIGNED  
7V 61-054 VERTICAL REFERENCE  
7W NOT ASSIGNED  
7X NOT ASSIGNED  
7Y 41-039 CUT-OFF MACHINE-ABRASIVE DISK, METAL CUTTING  
7Z 21-023 SWITCH-PRESSURE AND/OR THERMOSTATIC  
70 03-003 COOLER-FLUID, ENGINE JACKET WATER HULL MOUNTED  
71 03-004 COOLER, FLD SMPL WTR TYPE I SHL/CL DSN, TYP II DB TB  
72 03-006 COOLER, AIR  
73 03-011 COOLER-FLUID, RADIATOR ENGINE COOLANT  
74 03-015 COOLER-AMINE  
75 32-011 COOLER-AIR FLOW UNIT  
76 32-010 COOLING COIL-AIR, DUCT TYPE AND GRAVITY TYPE  
77 46-005 COUNTERS AND TOTALIZERS  
78 NOT ASSIGNED  
79 51-001 COUPLING-FLEXIBLE, SOUND ISOLATION  
8A NOT ASSIGNED  
8B 80-004 BRAKE-MANUAL  
8C 28-012 COMPASS COMPENSATING EQUIPMENT  
8D 43-018 DOUGH MIXING MACHINES  
8E NOT ASSIGNED  
8F NOT ASSIGNED  
8G 25-021 GYRO COMPASS EQUIPMENT-RELAY TRANSMITTER  
8H NOT ASSIGNED  
8I NOT ASSIGNED  
8J 22-013 SWITCHBOARD-POWER  
8K NOT ASSIGNED  
8L 878 AMMUNITION HANDLING AND STOWAGE  
8M 86-014 MOUNT-FILM SLIDE, PHOTOGRAPHIC  
8N 43-019 RANGES AND OVENS-OIL BURNING-SEE ALSO GALLEY EQPMT  
8O NOT ASSIGNED  
8P 29-003 PRIMER-ENGINE STARTING, ETHER INJECTION  
8Q 01-002 PUMP-RECIPROCATING, DIRECT ACTING AND POWER DRIVEN  
8R NOT ASSIGNED  
8S 25-017 STABILIZER-GYRO  
8T 67-009 TOILET-MARINE  
8U NOT ASSIGNED  
8V 26-004 VIEWER - STILL PICTURE  
8W NOT ASSIGNED  
8X NOT ASSIGNED  
8Y 02-004 BOILER-AUXILIARY, HP STEAM, OIL FIRED  
8Z 21-006 SWITCHES-GENERAL  
80 01-032 PUMP UNIT-CENTRIFUGAL, POWER DRIVEN, PORTABLE (SELF-CONTAINED)  
81 78-001 COUPLING-FLEXIBLE, SHAFT  
82 01-034 PUMPING UNIT-HYDRAULIC, AIR DRIVEN  
83 NOT ASSIGNED  
84 01-035 PUMP-CENTRIFUGAL, PWR DRIVEN, (MULTI-STAGE) VERT DEEPWELL TURB DESIGN  
85 01-036 PUMP-JET, MAIN PROPULSION



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86 01-C37 PUMP-RECIPROCATING, AIR DRIVEN, MISCELLANEOUS SERVICE  
87 78-004 COUPLING-FLEX, SHFT, AUXILIARY SERVICE  
88 02-002 BOILER-AUXILIARY, HP STEAM, WATER TUBE  
89 02-003 BOILER-AUXILIARY, HP STEAM, HORIZONTAL FIRE TUBE  
9A NOT ASSIGNED  
9B 80-005 BRAKE-HYDRAULIC  
9C COMPARTMENT  
9D 43-032 DOUGH PROCESSING MACHINE-POWER AND MANUAL  
9E NOT ASSIGNED  
9F NOT ASSIGNED  
9G 41-066 GRINDING MACHINE-TOOLS & CUTTERS  
9H NOT ASSIGNED  
9I NOT ASSIGNED  
9J 22-021 SWITCHBOARD-STATIC GROUP CONTROL  
9K NOT ASSIGNED  
9L SMALL ARMS  
9M 79-001 MUFFLER  
9N GRATINGS, FLOOR PLATES  
9O NOT ASSIGNED  
9P 86-002 PRINTER-PHOTOGRAPHIC  
9Q NOT ASSIGNED  
9R NOT ASSIGNED  
9S 31-029 STABILIZER-ACTIV FIN, RETRACTBLE & NONRETRACTBLE  
9T C25 TOWING GEAR  
9U NOT ASSIGNED  
9V 86-006 VIEWER PRINTER - MICROFILM  
9W NOT ASSIGNED  
9X NOT ASSIGNED  
9Y 54-013 CUTTER-PAPER, GUILLOTINE  
9Z NOT ASSIGNED  
90 NOT ASSIGNED  
91 R20 WINCHES AND CAPSTANS REPAIR PARTS  
92 78-011 COUPLING-RIGID, SHAFT  
93 78-009 COUPLING-HYDPAULIC  
94 78-012 COUPLING-CLAMP PIPE  
95 78-013 COUPLING-ELECTRIC INDUCTION  
96 93-018 COUPLING-HOSE, MISC SEE ALSO UNWAY REPLEN ACC  
97 57-001 CRANE-BRIDGE CR OVERHEAD TRAVELING  
98 57-002 CRANE-QUARTER  
99 57-003 CRANE-JIB